REPORT OF CONSTRUCTION STORM WATER COMPLIANCE INSPECTION

AT THE

ALICE PATRICIA HOMES DEVELOPMENT

Alice's Road, Waukee, Iowa 50263

NPDES Permit: Iowa General Permit No. 2, Authorization Number: 28485-28228

ON

October 14, 2016

BY THE

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VII
Environmental Sciences and Technology Division

INTRODUCTION

At the request of the Water, Wetlands, and Pesticides Division, Water Enforcement Branch, I conducted a Construction Storm Water Compliance Inspection at the Alice Patricia Homes Residential Development site in Waukee, Iowa, on October 14, 2016. The inspection was conducted under the authority of Section 308 of the Clean Water Act, as amended, and in accordance with EPA Region VII Standard Operating Procedures for Compliance Inspections (ENST SOP No. 2332). This narrative report and the attachments present the results of the inspection.

PARTICIPANTS

Jerry's Homes:

Jay Cowan, Director of Land Development

Paper Street Consultants:

Tim Huckaby, Partner

U.S. Environmental Protection Agency (EPA) Region VII: Erin Trainor, Environmental Engineer

INSPECTION PROCEDURES

I arrived unannounced at the site at 9:00 a.m. on October 14, 2016, and met with an employee of Jordison Construction Company. He informed me that Jay Cowan of Jerry's Homes was the site owner. I called Mr. Cowan and left a message explaining I was at the site to conduct a construction stormwater inspection. Mr. Cowan returned my phone call and said he would arrange for Tim Huckaby of Paper Street Consultants, LLC to meet me at the site, and agreed I could begin inspecting the site unaccompanied while waiting for Mr. Huckaby to arrive. Mr. Cowen met me on the site at

approximately 10:30 a.m. and provided me with a copy of the Stormwater Pollution Prevention Plan (SWPPP) dated March 31, 2016. I showed my credentials to Mr. Cowen. Mr. Huckaby met me at the site at approximately 12:00 p.m. After the inspection I completed the Stream Characteristics and Water Nexus Field Sheet (Attachment 1). The weather during the inspection was overcast with a light drizzle and approximately 50°F.

Photographs of the site are included in Attachment 2.

SITE DESCRIPTION

Alice Patricia Homes is a 21.81-acre, residential apartment complex being developed west of the intersection of Alice's Road and 284th Lane in Waukee, Iowa. An aerial photograph of the site is included in Attachment 2. The site is bounded on the north by another active construction site, on the east by Northeast Alice's Road with agricultural land beyond, on the south by a Mid-American substation, and on the west by residential properties. The site has no obvious slope. A flowing unnamed tributary runs 1,000 feet to south of the site and discharges into Walnut Creek about 2.25 miles to the east of the site. Refer to the Stream Characteristics and Water Nexus Field Sheet included as Attachment 1.

Site clearing began in May 2016. Seamus Excavating, LLC conducted the clearing, Gator Excavating, Inc. conducted the utility installation, and Jordison Construction, Inc. was currently conducting paving activities. Mr. Cowan explained backfill and paving activities will begin the week of October 17th and take approximately three days. Building activities will begin in approximately ten days and will likely be completed next year. Mulch had recently been spread in areas where construction activities were inactive. According to Mr. Huckaby the site will be seeded on Tuesday October 18, 2016, with oats and perennial rye after backfilling activities are completed.

There are four stormwater discharge points at the site:

- Discharge Point #1 is from a sedimentation basin located on the northwest corner of the site (Basin #1). Stormwater flows from the basin into the storm sewer system and discharges to an unnamed tributary of Walnut Creek approximately 2,500 feet to the north of the site;
- Discharge Point #2 is from a swale that runs north along the east side of the site and discharges to an unnamed tributary of Walnut Creek approximately 2,500 feet to the north of the site;
- Discharge Point #3 is from a sedimentation basin located on the south central portion of the site (Basin #3) which discharges to an unnamed tributary of Walnut Creek approximately 1,000 feet to the southeast of the site;
- Discharge Point #4 from a swale that runs south along the east side of the site and discharges to an unnamed tributary of Walnut Creek approximately 1,000 feet to the southeast of the site.

I did not observe flow from any of the discharge points.

There are five sedimentation basins at the site. The sedimentation basins will remain in place after construction activities are completed. Note: basins did not have identifiers assigned to them by site owner or SWPPP. Identifiers provided in this report were issued by the order they were inspected in.

• Basin #1 is a sedimentation basin located at the northwest corner of the site (photograph 4). The basin was surrounded by silt fence. The silt fence had fallen on the southeast corner (photograph 5). Basin #1 collects flow from Basin #5 as well as street intakes along the newly paved road on

- the south side of the basin (photographs 6-10). The basin has a standpipe (photograph 11) and discharges to the MS4 along Dellwood Drive (photographs 12-13), which ultimately discharges to Walnut Creek. I observed vegetated growth in Basin #1.
- Basin #2 is located on the north central portion of the site and collects flow from the street directly to the west of the basin (photograph 14). The basin has a standpipe (photograph 15) and discharges to the MS4 along Dellwood Drive (photographs 16-17) which ultimately discharges to Walnut Creek (photographs 16-17).
- Basin #3 (photograph 19) collects flow from Basin #4 (photograph 30) as well as a tile drain system that runs along the east and center length of the site (photographs 24-29), and a street intake to the northwest of the basin. The basin has a standpipe and discharges to the south of the site to an unnamed tributary of Walnut Creek (photographs 20-23).
- Basin #4 collects stormwater from the street directly to the southeast of the basin (photograph 31). The sediment basin discharges to Basin #3 (photograph 30).
- Basin #5 does not have an inlet. Basin #5 discharges to Basin #1 (photograph 34).

FINDINGS AND OBSERVATIONS

- 1. Notice of Intent and Storm Water Discharge Authorization: A copy of the Notice of Intent (NOI) was included in the SWPPP. The NOI was filed by filed by Jerry's Homes on March 10, 2016, for coverage under the General Permit No. 2, and the Authorization notice from the Iowa Department of Natural Resources. The authorization #28485-28228 became effective on March 28, 2016, and expires on March 28, 2019.
- **2.** Storm Water Pollution Prevention Plan (SWPPP): The SWPPP dated March 31, 2016, is included as Attachment 3. The SWPPP was signed on March 10, 2016, by Chip Classon, Director of Land Development of Jerry's Homes. The following deficiencies were observed:
 - The SWPPP states "a sign or other notice must be posted near the main entrance of the construction site providing contact information for the person responsible for the SWPPP." I did not observe a sign at the entrance of the construction site.
 - A Contractor/Subcontractor Certification Statement for Jordison Construction, Inc. was not included in the SWPPP nor was Jordison Construction, Inc. listed as an operator in the SWPPP. Contractor/Subcontractor Certification Statements were available for Paper Street Consultants, LLC, 3D Erosion Control, LLC, Manatt's, Inc., Gator Excavating, Inc., and Seamus Excavating, LLC.
 - According to the SWPPP topsoil stockpile will be stockpiled in an area that will not interfere with construction activities. A silt fence will be installed around the stockpile and the stockpile will be temporarily stabilized as in the soil stabilization section of the SWPPP. I did not observe a silt fence around the topsoil stockpile. The stockpile was covered in mulch at the time of the inspection (photographs 32-33).
 - The SWPPP states temporary portable restroom facilities will be staged in an area away from stormwater conveyances. I observed a temporary portable restroom (Jim's Johns) along Dellwood drive within proximity to four stormwater catch basins (photograph 35).
 - The SWPPP states a 10'x10' lined concrete washout will be installed and a filter sock will be installed around the washout area. I observed a concrete washout roll off bin. I observed

concrete that had been washed out on the ground in the center potion of the site (photograph 36).

- There were two east-west oriented roads constructed to access the site. One paved road (Dellwood Drive) was constructed by Jerry's Home, but according to Mr. Cowan, splits ownership with the construction site to the north. A dirt road was constructed to the south of Dellwood Drive. The SWPPP states 150 feet of the exit areas will be covered in 6 inches of 3-inch crushed stone. I did not observe crushed stone on the dirt road.
- The SWPPP states temporary seeding is typically done for areas that will be undisturbed for less than one year and should only be done certain times of the year (March 1st to May 31st and from August 10th to September 30th) and any area outside of these dates may need to be mulched until such time seeding may take place. The SWPPP states conventional or hydromulching shall be utilized in areas that cannot be stabilized by seeding due to season or ground conditions. I observed conventional mulching on the southern half of the site which appeared to be an inactive portion of the site. Mr. Huckaby said the site would be seeded after backfilling activities on October 18, 2016.
- The SWPPP states drop-in intake devices will be installed once stormwater intakes are installed and paving is complete. I observed five stormwater intakes (two along Dellwood Drive and three along a recently paved unnamed road) in paved areas without drop-in intake devices or other stormwater controls (photographs 8-10, 18-19).
- 3. Site Inspection Logs: Mr. Huckaby brought inspection logs to the site. I reviewed them and did not determine there to be any discrepancies.

CONCLUSIONS/RECOMMENDATIONS

- 1. The Notice of Intent (NOI) predates the SWPPP. Per Part IV.A.1 of the permit, the pollution prevention plan shall be completed prior to the submittal of an NOI.
- 2. Inlet protection should be installed in two catch basins along Dellwood Drive as well as recently installed stormwater intakes.
- 3. The silt fence around Basin # 1 should be repaired in the southeast corner.
- 4. The portable restroom should be staged in an area away from stormwater catch basins.
- 5. The concrete washout roll off bin should be utilized for all concrete wash out activities.

Erin F. Trainor

Environmental Engineer Date: November 17, 2016

Attachments:

- 1. Stream Characteristics and Water Nexus Field Sheet (7 pages)
- 2. Digital Photographs Taken During the Inspection (40 pages)
- 3. Stormwater Pollution Prevention Plan (SWPPP) dated March 31, 2016 (119 pages)

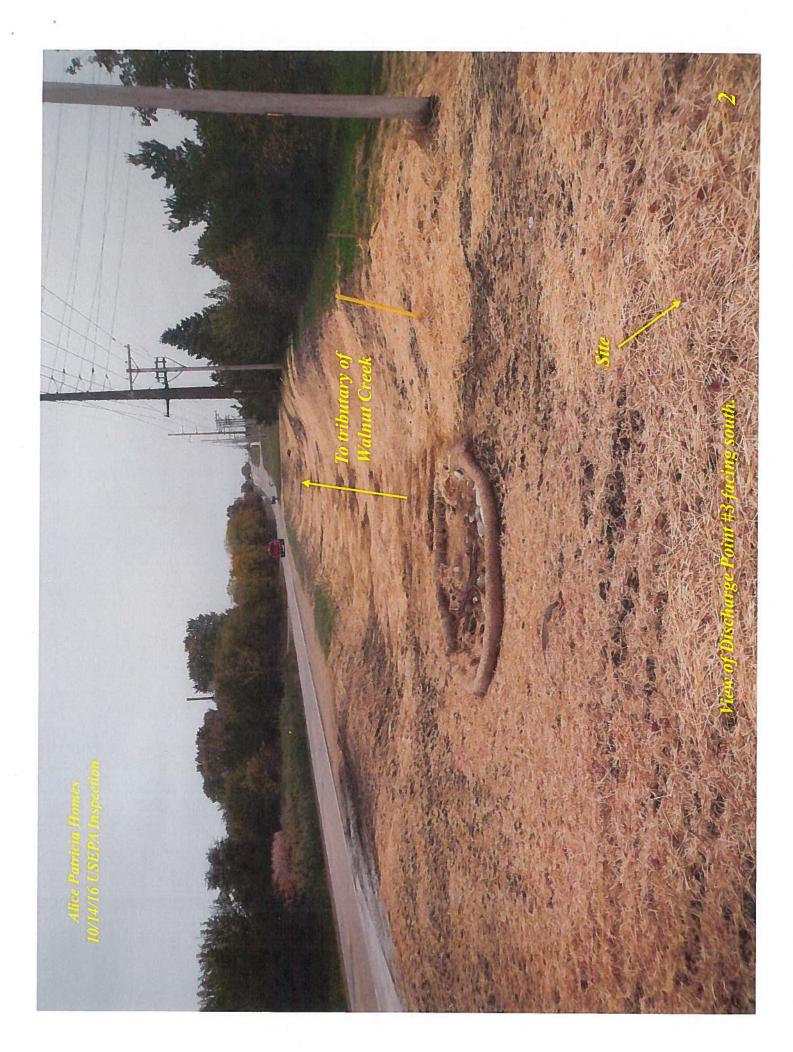
ATTACHMENT 1

Stream at Discharge from Site Location: NE Alice's Rd. Woulder, IA	Stream at Downstream of discharge Location: NE Alice's Rd. Wanker IN	Nexus: perennial stream Location: Approx 300 ft North of the east end of Horson Ave.
GPS 41°37'19.67"~ Latitude: 41°37'19.86"14	GPS Latitude: 41°37′10.92 "N	GPS Latitude: 41°37′56.63″H
93°51'14.82"W Longitude: 93°51'11.35"W	Longitude: 93°51'09.91'W	Longitude: 93°49'12.28"W
Channel Width (1):	Channel Width (1):	Channel Width (1):
Bank Depth (2):	Bank Depth (2):4 '	Bank Depth (2):
Substrate Type (3): grass/dirt	Substrate Type (3): grass/dirt	Substrate Type (3):
Avg. Water Depth:	Avg. Water Depth: //chos	Avg. Water Depth:
Visible Flow? Yes No Water	Visible Flow? Yes No water	Visible Flow?
Sediment from site? ☐ Yes ☒ No	Sediment from site? ☐ Yes 🔀 No	Sediment from site? ☐ Yes 🎵 No
Dimensions (5):	Dimensions(5): 8'x4'	Dimensions(5): 30' * 3'
Site Characteristics Bank vegetative Cover (4):% Type of cover:	Site Characteristics Bank vegetative Cover (4):% Type of cover:	Site Characteristics Bank vegetative Cover (4):% Type of cover:
☐ Grass ☐ Weeds ☐ Woods	Grass Weeds Woods	Grass Weeds Woods
Photographs: /-3	Photographs: 4	Photographs: $\[\[\[\] \] \]$
Culvert Size:	Culvert Size: g'×+y'	Culvert Size: 30' * 3'
Footnotes and additional notes are on the second page.		Distance to site: 2.25 mi

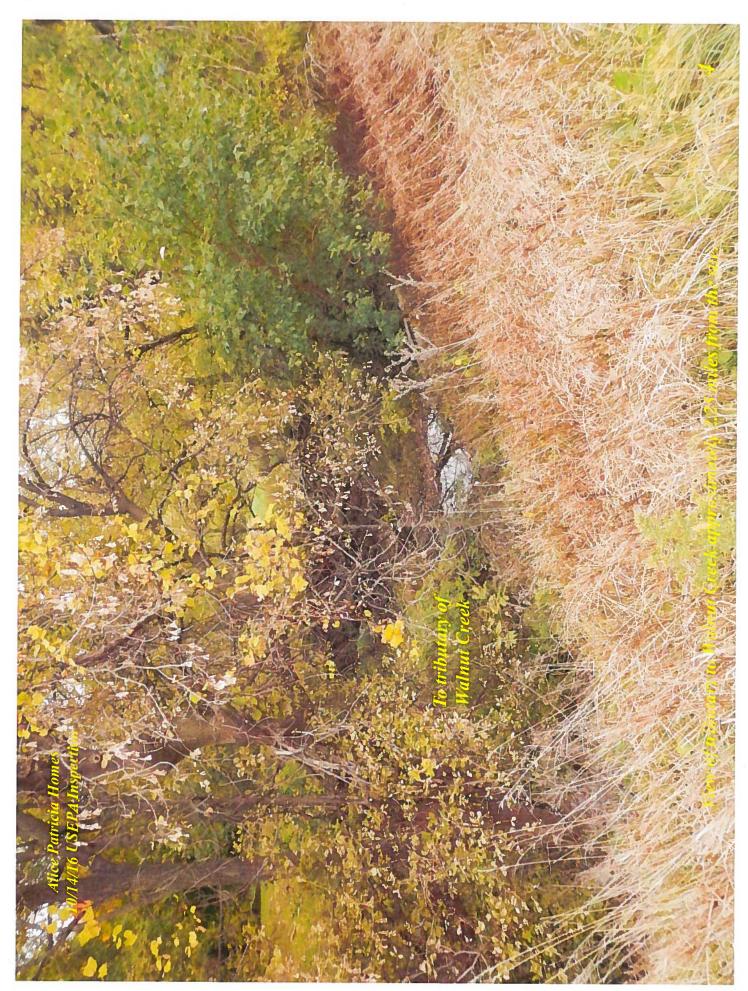
- (1) Model input of Channel Width: Distance from the top of one bank to the top of the other bank.
- (2) Model input of bank depth: Distance from top of bank to bottom of stream.
- (3) Model input of Substrate type:
 - a. Fine silt/sand: gritty, no rocks
 - b. Gravel: lady bug-sized to marble-sized rocks
 - c. Coarse Gravel: Marble-sized to Tennis ball
 - d. Cobble: Tennis ball to basketball
 - e. Boulder: Larger than basketball
- (4) Model input of Vegetative Cover in percent coverage of the upper banks, check the appropriate type listed.
- (5) Estimate of sediment in the stream or off-site. Measurements in three dimensions would be best.

Additional Site Notes:









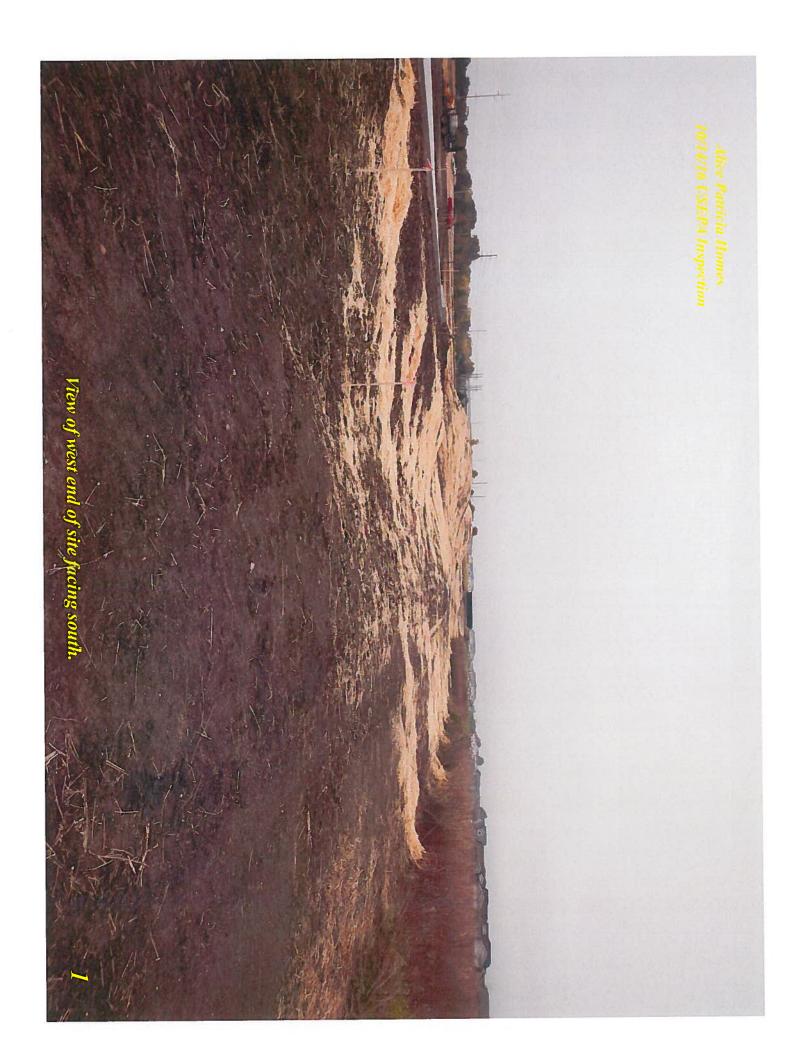


Photographs Taken During USEPA Region 7 Inspection on 10/14/2016

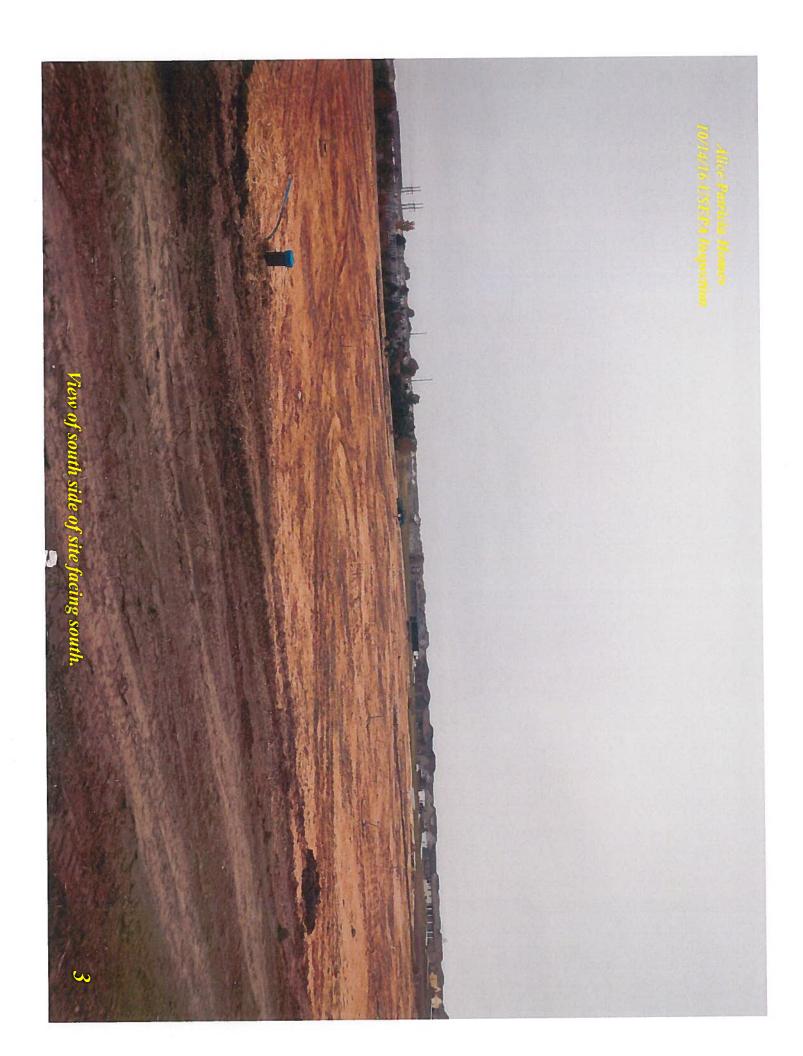
Alice Patricia Homes
41.624353, -93.854365
West of the intersection of Alice's Road and 160th
Street
Waukee, IA

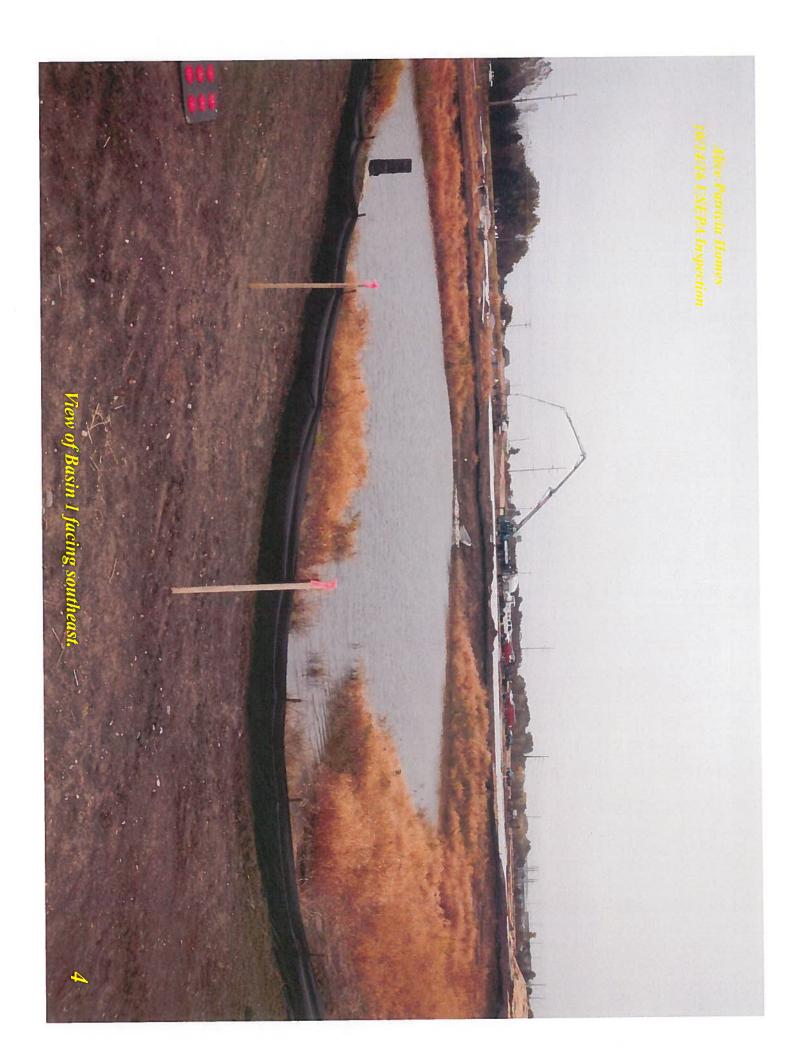










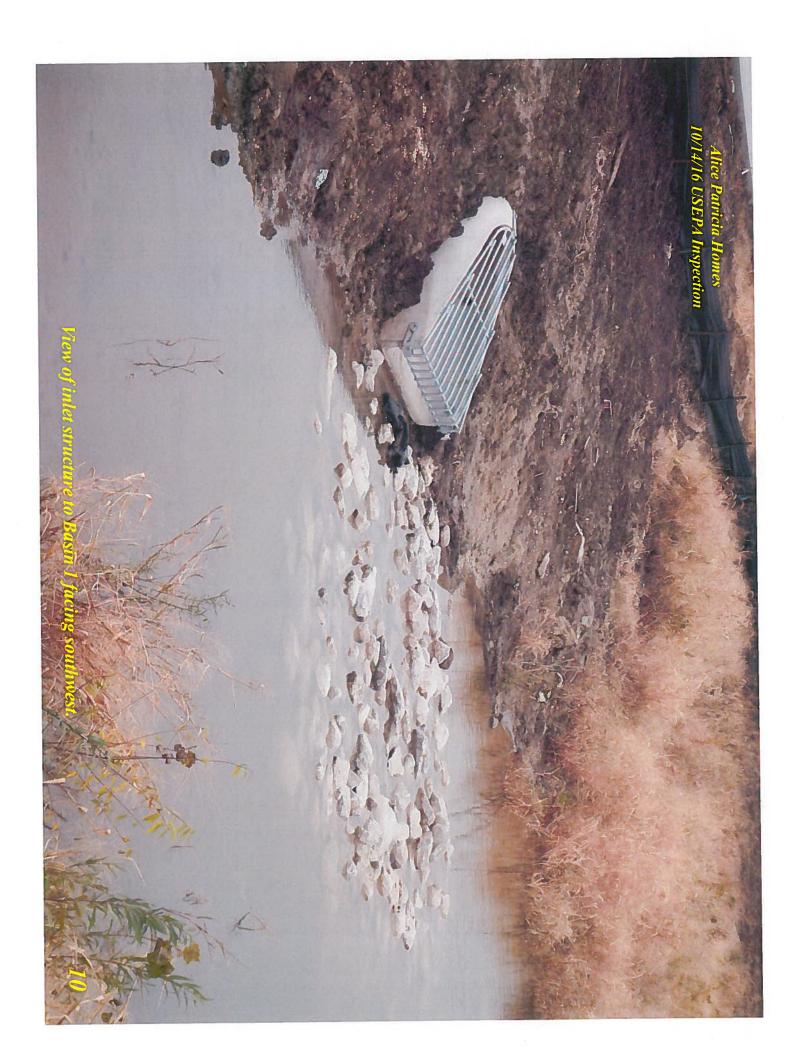


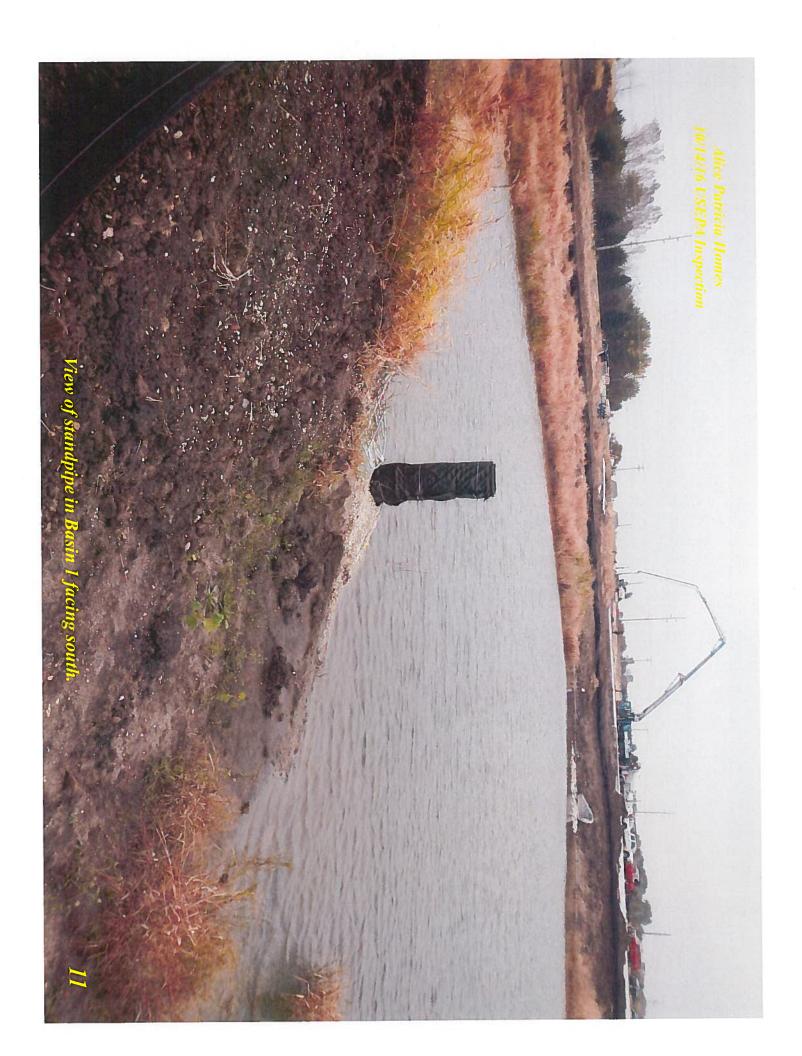




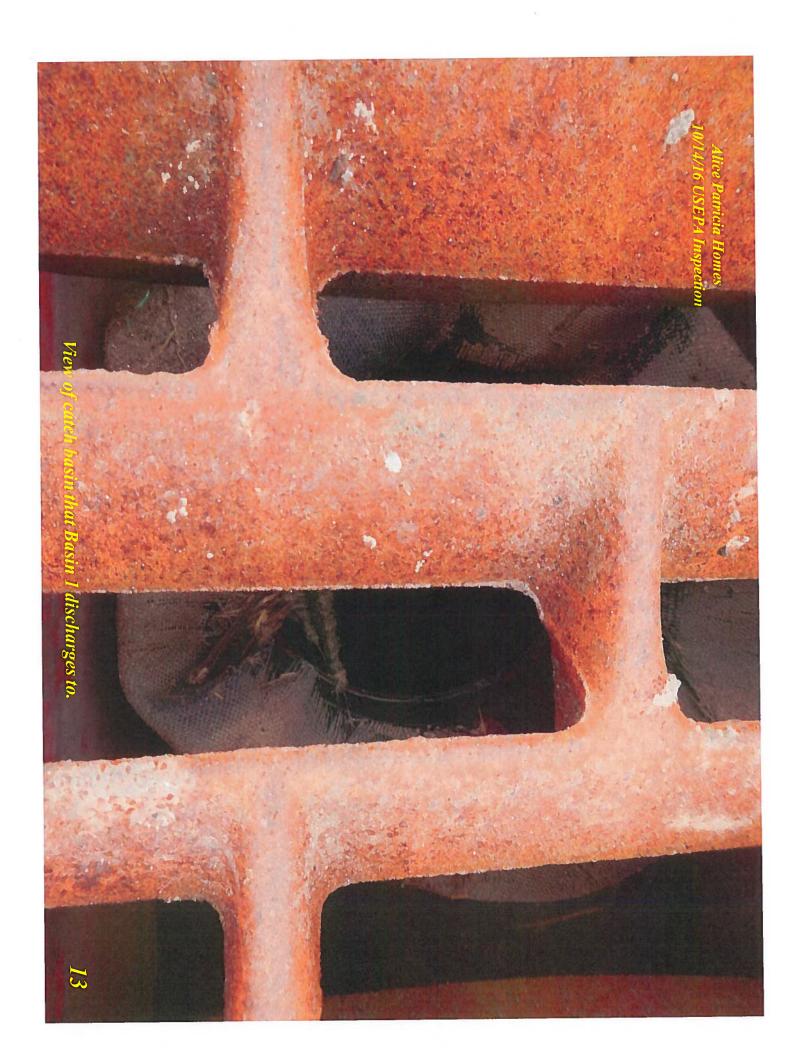
Catch basin which discharges to Basin II

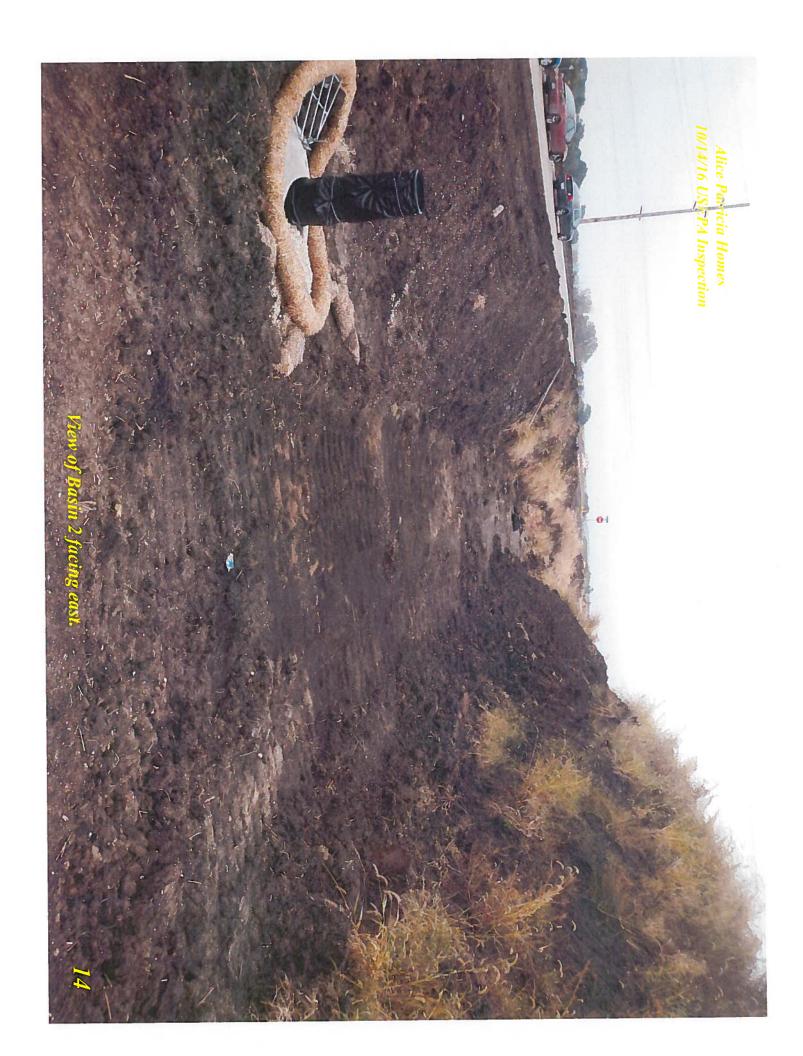


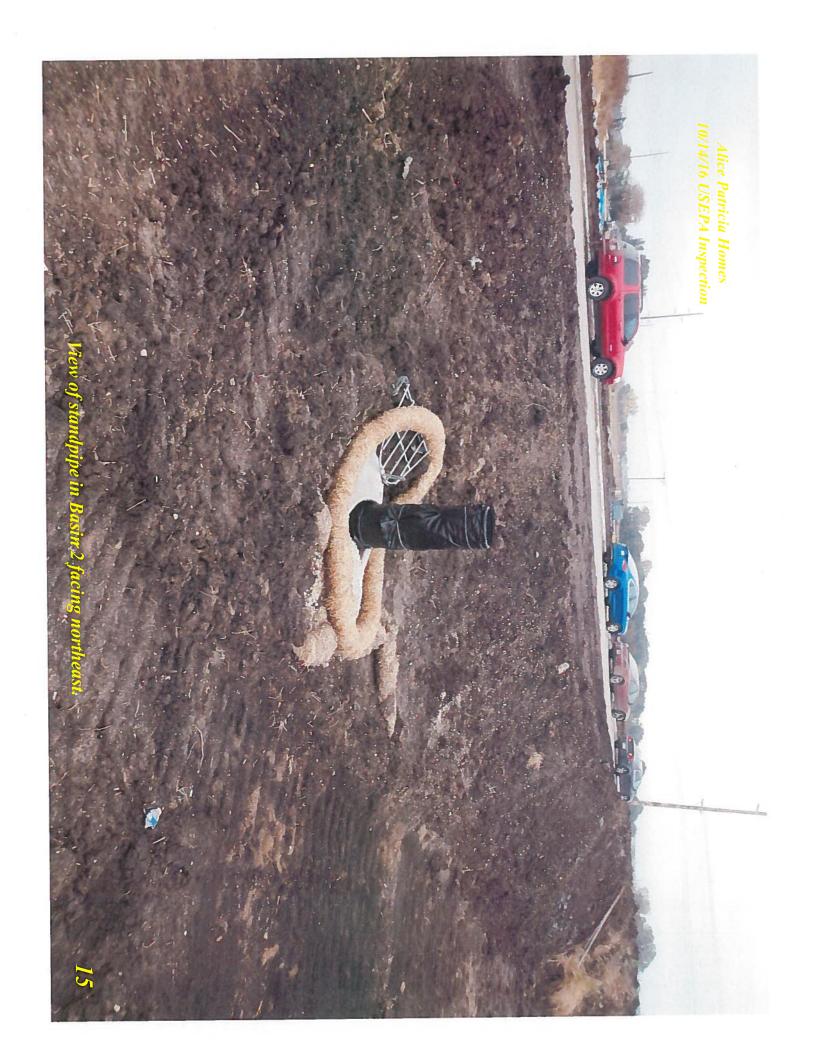


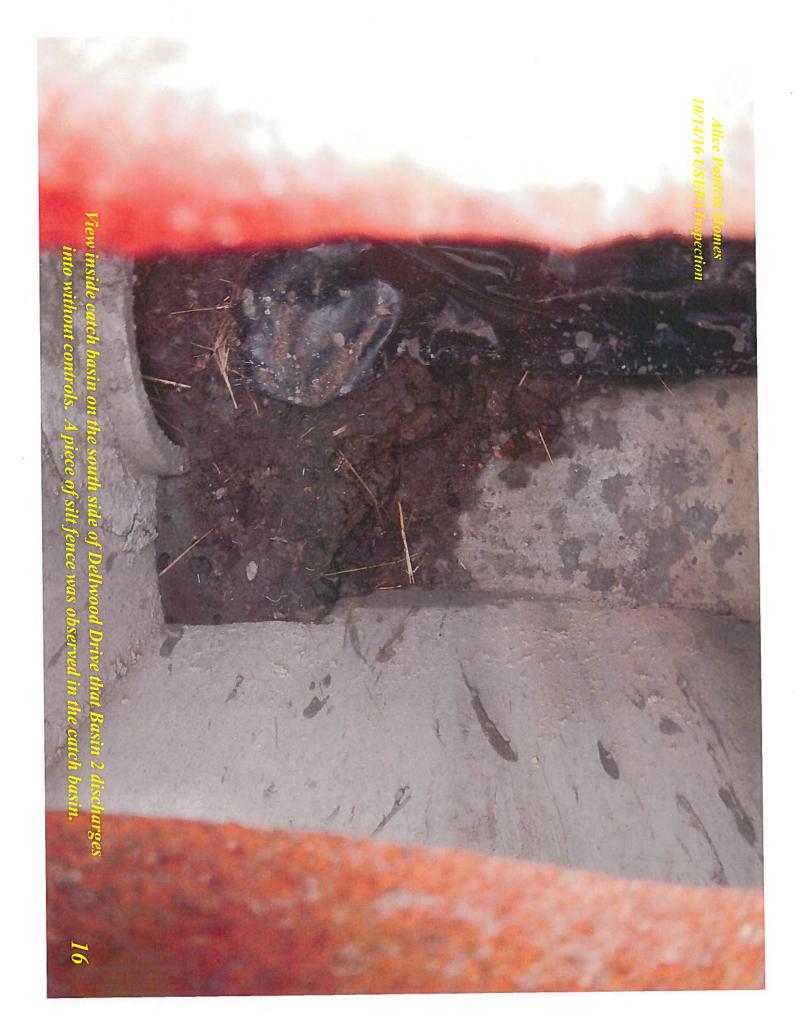


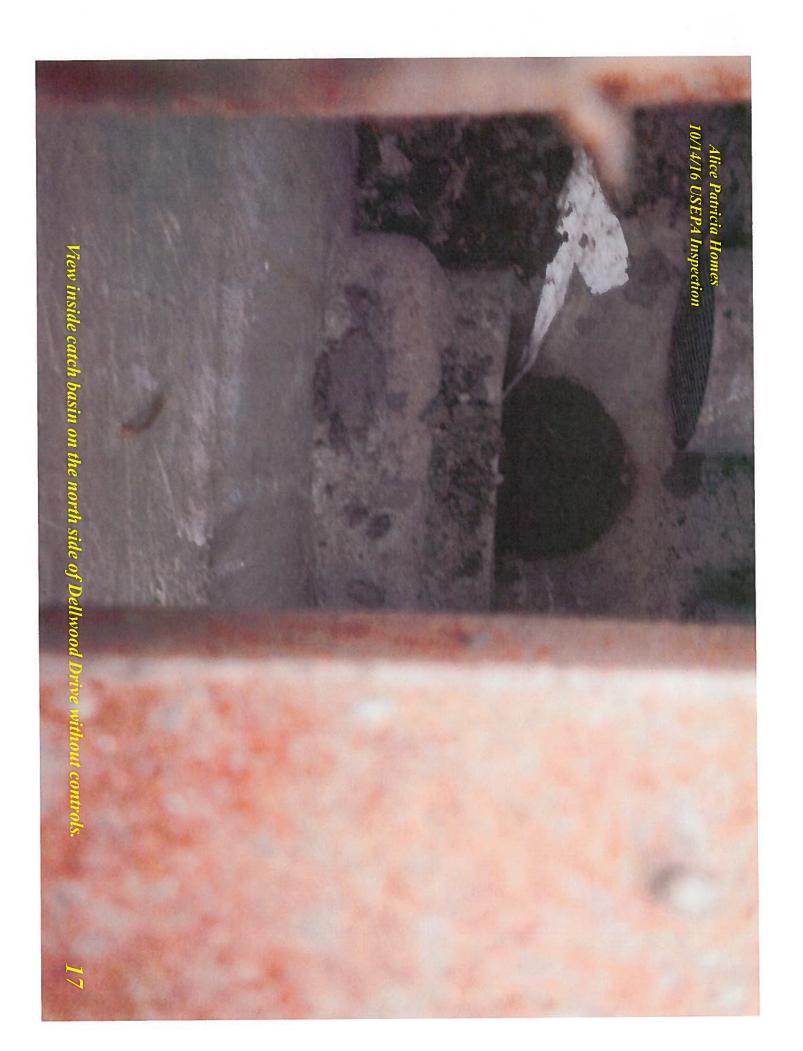


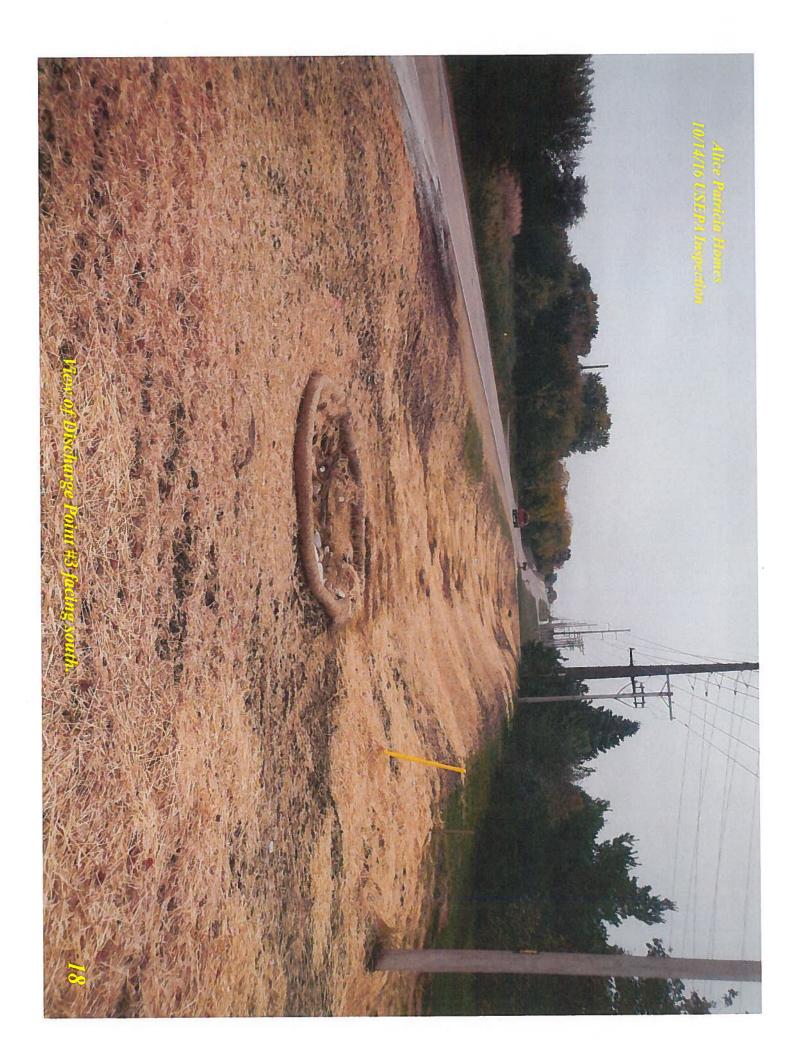


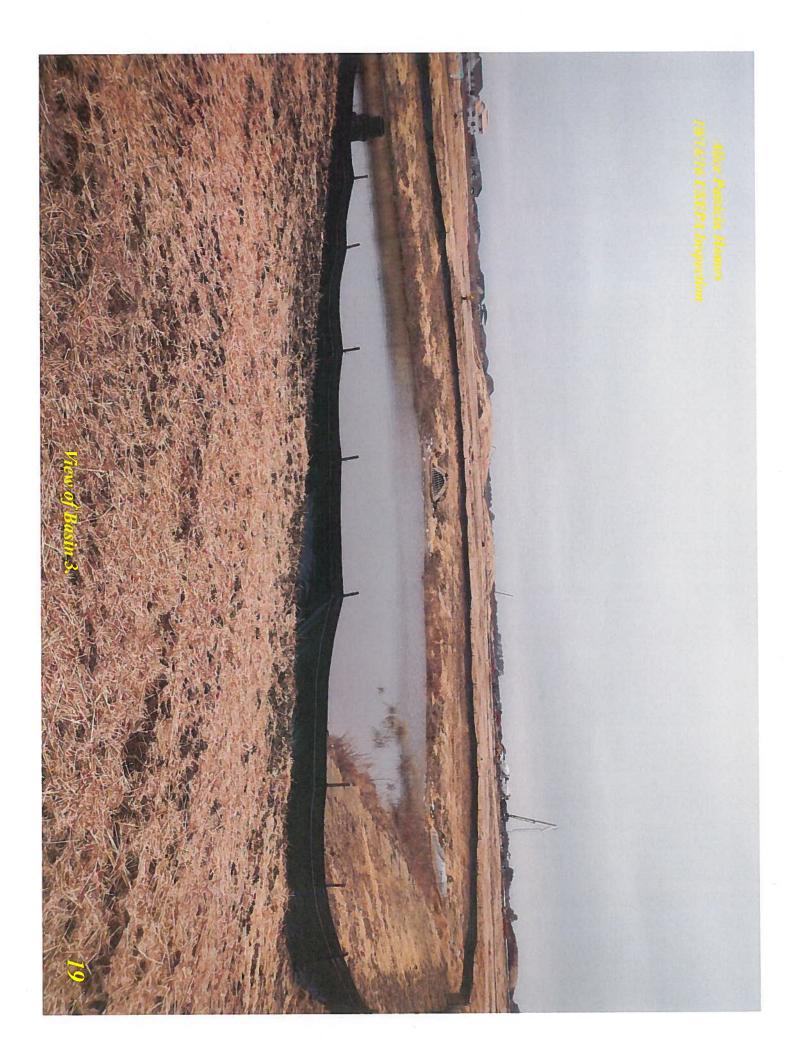




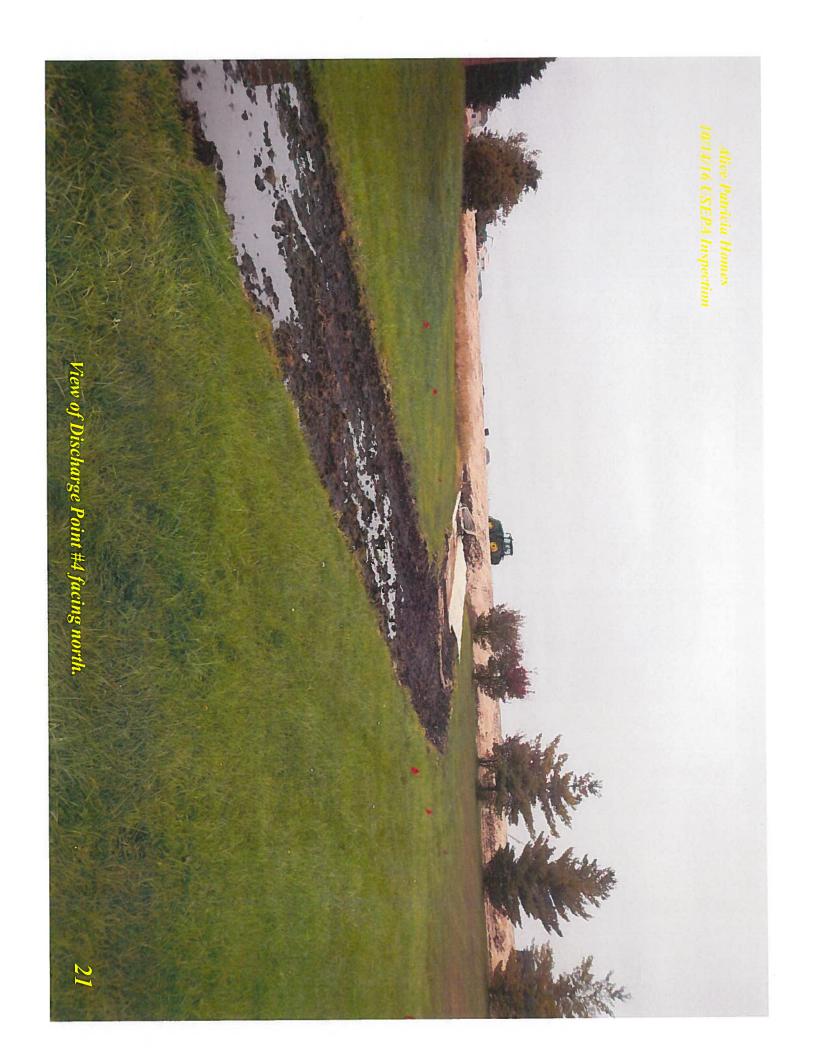


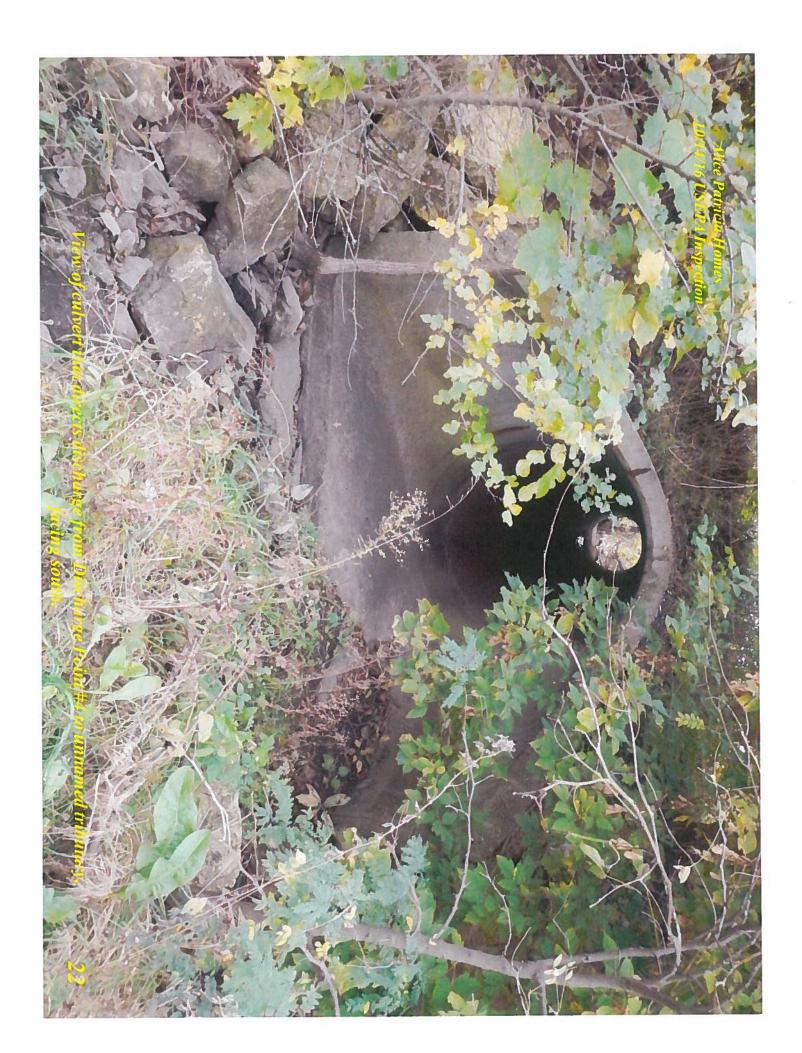




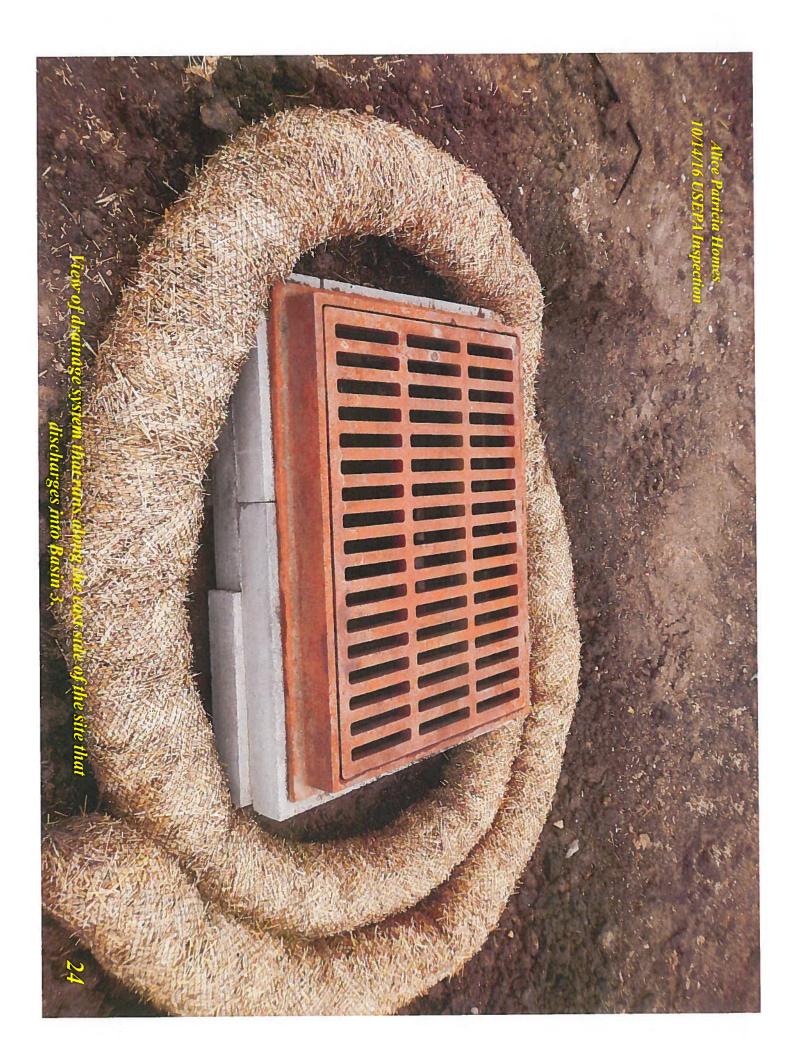


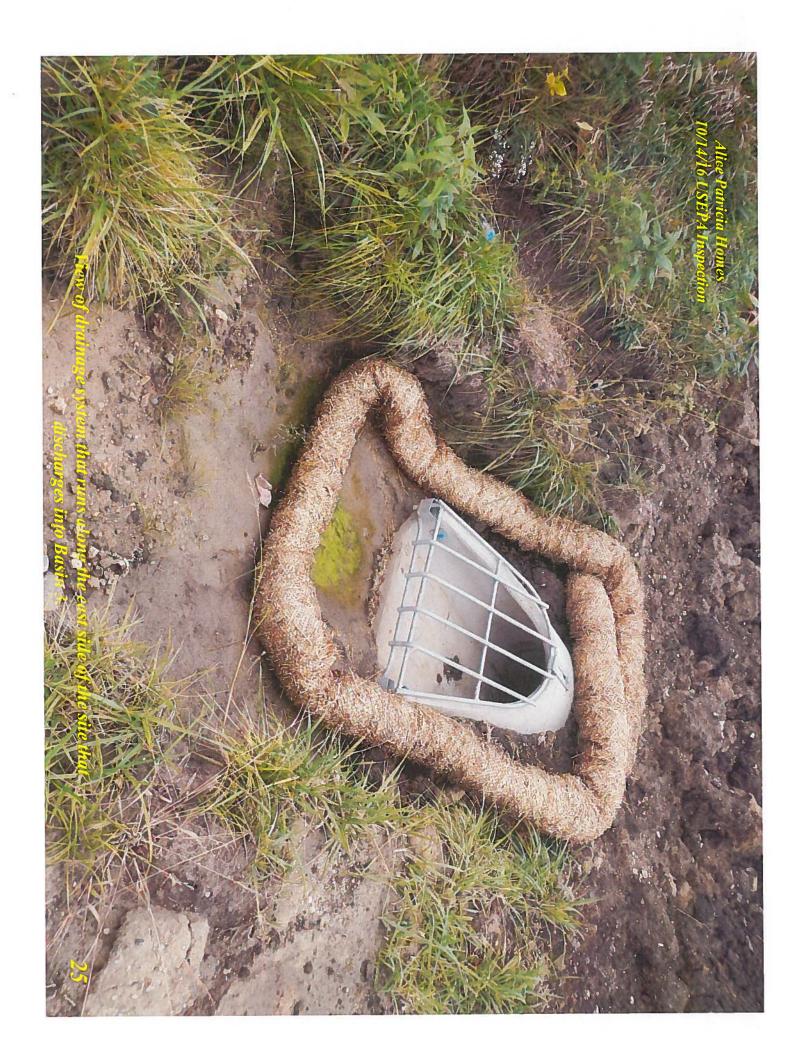


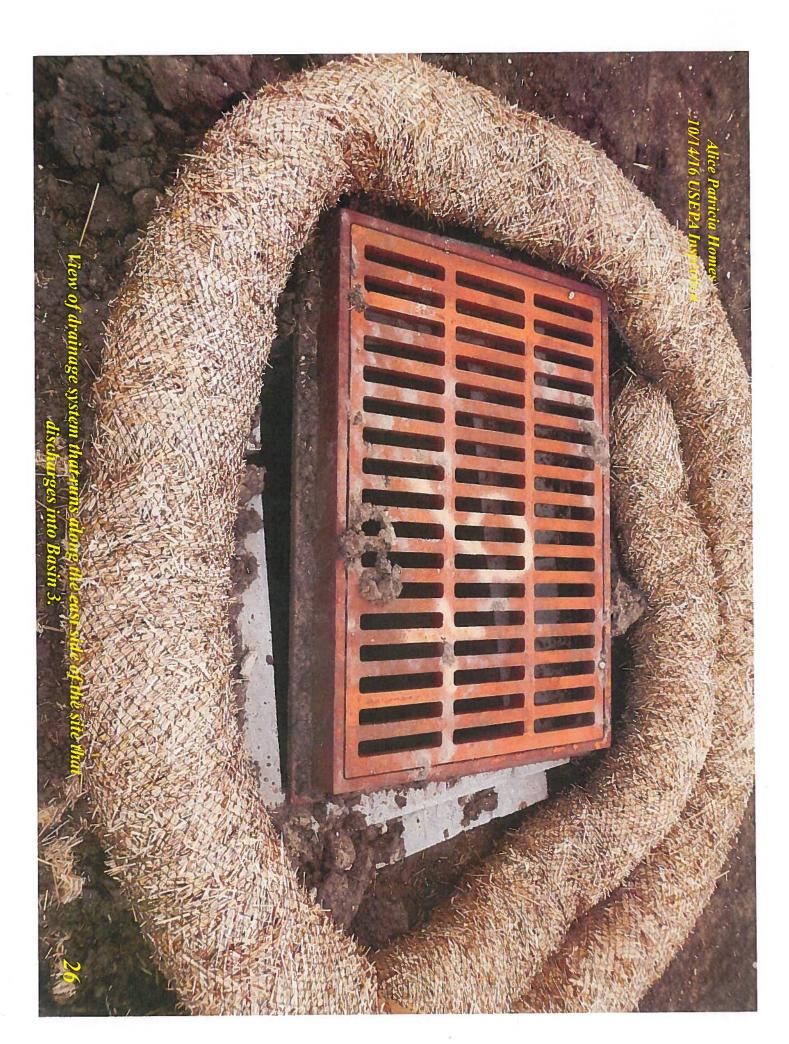




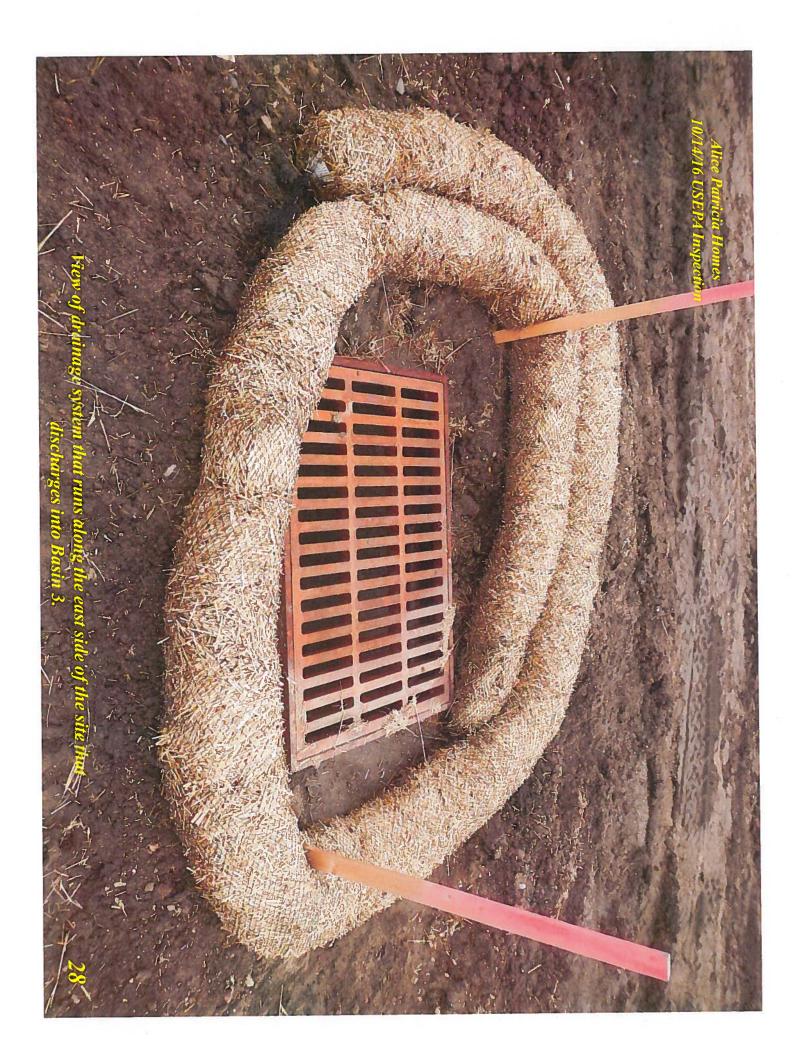


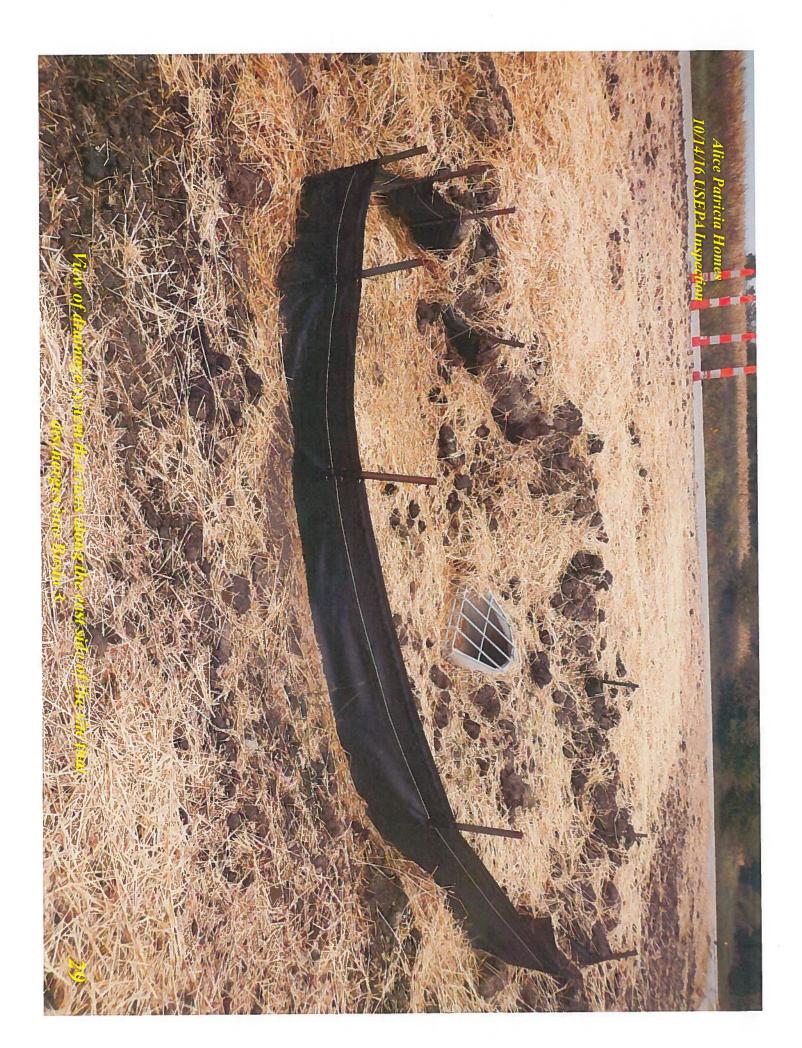


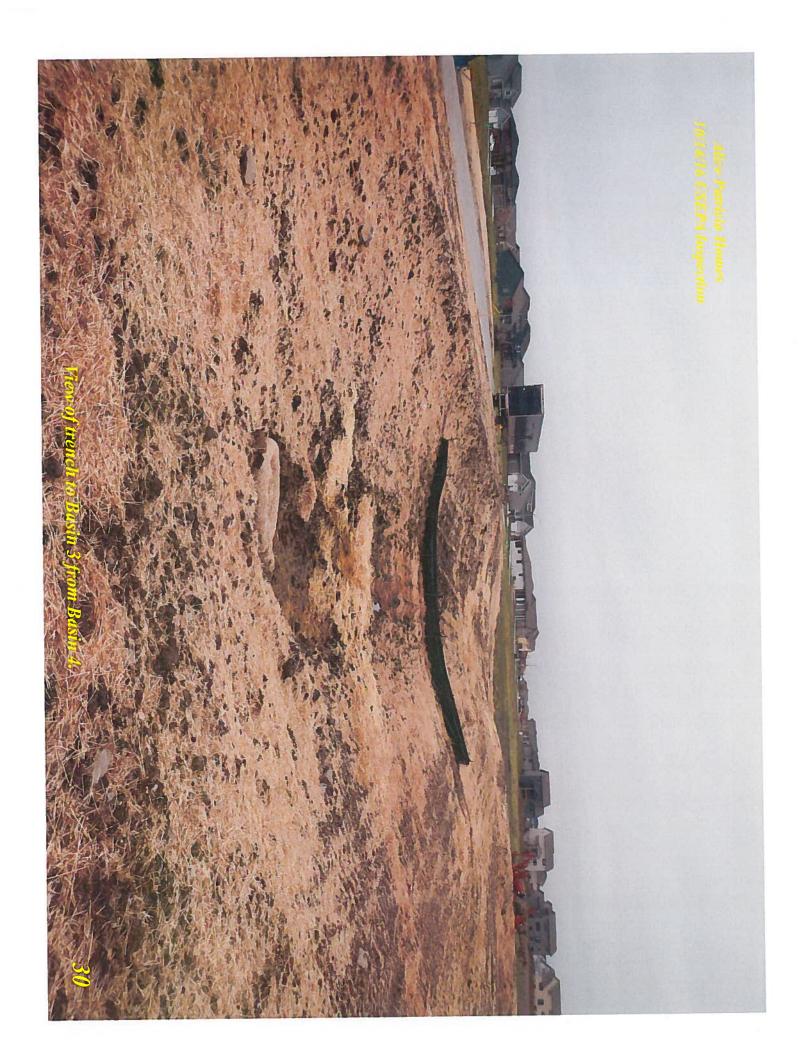


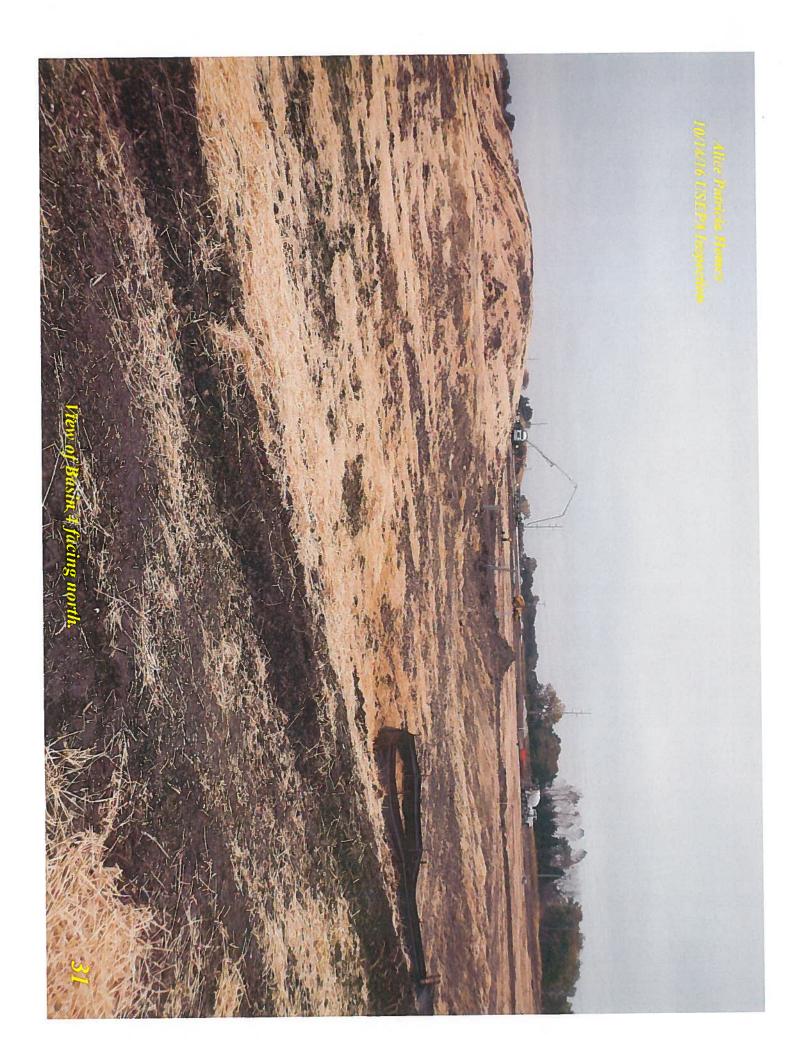


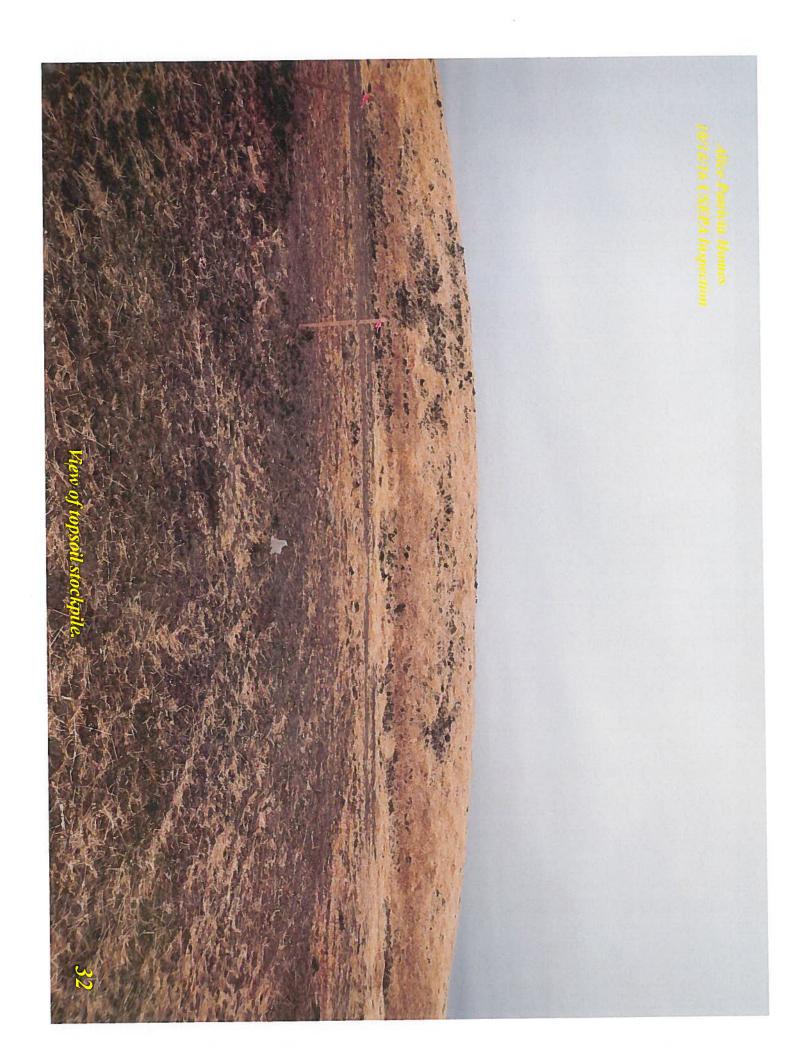


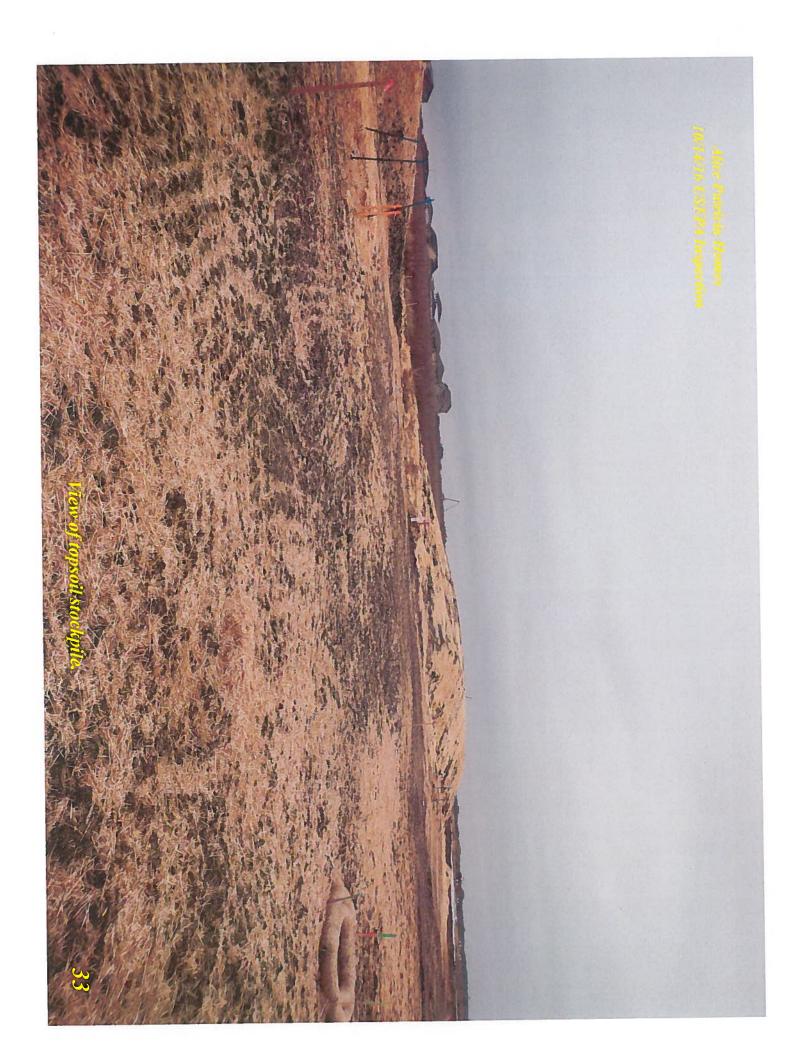


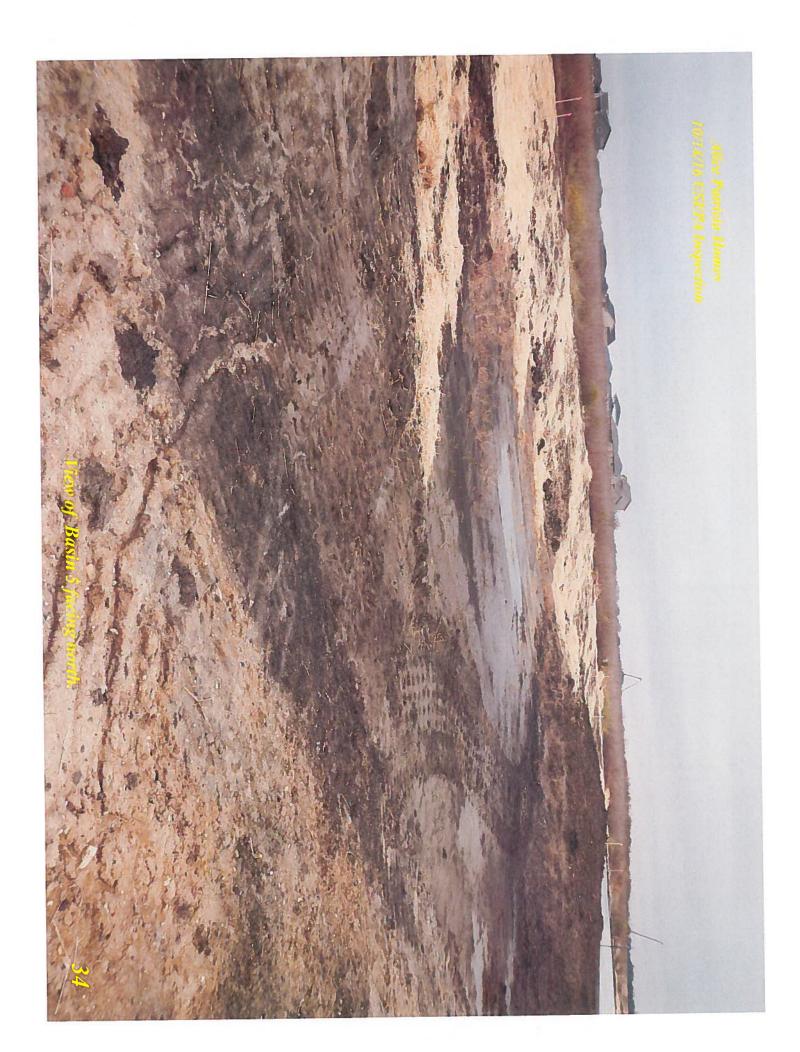






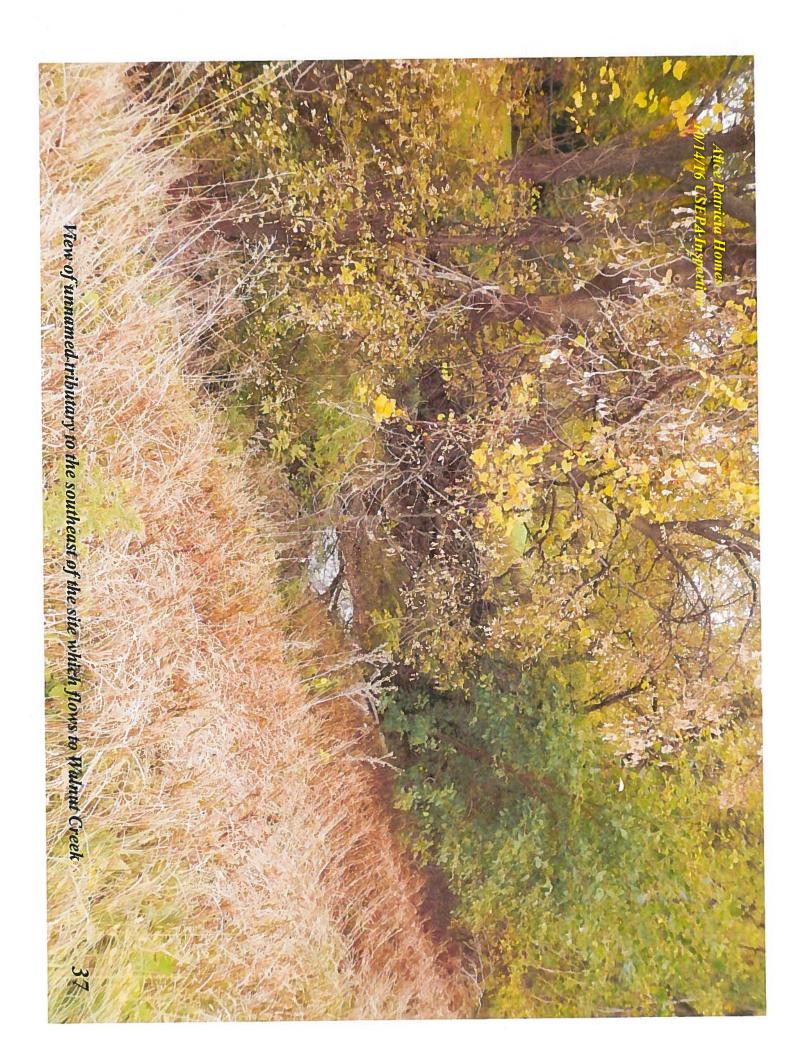














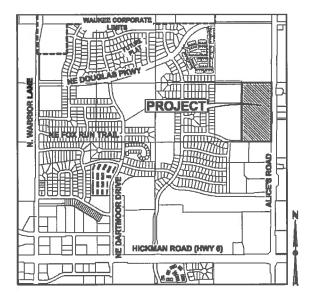
STORM WATER POLLUTION PREVENTION PLAN

FOR

ALICE PATRICIA HOMES

IN

WAUKEE, IOWA



VICINITY MAP (N.T.S.)

MARCH 31, 2016

NOTE: It shall be the responsibility of the OWNER and an entity hired by the OWNER to make sure the plan is complete, updated and placed on the construction site at all times from the date construction activities begin to the date of final stabilization. All contractors working onsite shall be supplied a copy of the SWPPP and must sign the certification statement provided. The SWPPP must be periodically updated to show current erosion control practices. It will be the duty of the OWNER to see that these requirements are met.

ALICE PATRICIA HOMES WAUKEE, IOWA

SWPPP NARRATIVE 1

* Owner Certification Statement * Site Description/Contact Information

* Site Assessment

* Discharge Point Summary

* Scope

*City of Waukee COSESCO

* Anticipated Sequence of Construction Activities

* Erosion and Sediment Controls BMP's

* Post-Construction Measures

* Inspection and Maintenance Procedures

* Good Housekeeping Best Management Practices

* Pollutant Spill Prevention and Response Procedures

* Listing of Potential Pollutants Related to Construction Activities

* Non-storm Water Discharges

PERMITS AND FORMS 2

* Notice of Intent Application

* Public Notices of Storm Water Discharge

* NPDES General Permit No. 2

* IDNR Notice of Discontinuation Form

*City of Waukee COSESCO Permit Application

CONSTRUCTION SCHEDULE & CERTIFICATION STATEMENTS 3

* Projected Construction Schedule

* Operator's Log

* Signed Contractor Certification Statements

CURRENT EROSION AND SEDIMENT CONTROL MAPS 4

* Aerial Map

* Pre-Construction Site Map

* Erosion and Sediment Control Plan

* Concrete Washout Detail

*Preliminary Plat

INSPECTOR QUALIFICATIONS, REPORT & PHOTOS 5

* Inspector Qualifications

* Stormwater Pollution Prevention Training Log

* Corrective Action Log

* Inspection Reports

* Grading & Stabilization Log

* Site Photos

MISCELLANEOUS ITEMS 6

* US Fish & Wildlife Service Potential Endangered Species List By County

* USGS Map

* Soil Survey Map

* EPA Watershed Fact Sheet

* IDNR: Guidelines for Reporting Hazardous Conditions

CORRESPONDANCE 7

* Corrective Action Notices * Regulatory Correspondance

SWPPP AMENDMENTS 8

* SWPPP Amendment Log
* Outdated SWPPP Maps



OWNER CERTIFICATION STATEMENT FOR ALICE PATRICIA HOMES WAUKEE, IOWA

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signed:	Conj N Class J - CHIP CLASSON
Title:	DIRECTOR OF LAND DOWNWOODLEST - JERRYS HUMES
Date:	3-10-2016

SITE DESCRIPTION/CONTACT INFORMATION:

PROJECT NAME:	Alice Patricia Homes
PROJECT LOCATION:	Directly west of Alice's Road and 284 th Lane Waukee, IA
OWNER/DEVELOPER INFORMATION:	Silver Oak Inc Contact: Jay Cowan 10430 New York Ave, Suite C Urbandale, IA 50322 Phone: (515) 727-0356
SITE SUPERVISOR CONTACT INFORMATION:	Jerry's Homes Contact: Jay Cowan 10430 New York Ave, Suite C Urbandale, IA 50322 Phone: (515) 727-0356 jayc@jerryshomes.com
SWPPP MONITORING CONTACT INFORMATION:	Paper Street Consultants Contact: Tim Huckaby 2701 71 st Street Urbandale, IA 50322 Phone: (515) 393-0311
SWPPP PREPARER CONTACT INFORMATION:	Civil Design Advantage, LLC Contact: Erin Ollendike 3405 SE Crossroads Drive, Suite G Grimes, Iowa 50111 Phone: (515) 369-4400 Cell: (515) 208-9188
CITY INSPECTOR CONTACT INFORMATION:	City of Waukee Attn: Jenny Corkrean 1205 6 th Street Waukee, IA 50263 Phone: (515) 987-4363

STATE OF IOWA CONTACT INFORMATION:	Iowa Department of Natural Resources Contact: Joe Griffin – Stormwater Coordinator 502 E 9 th Street Des Moines, IA 50319 Phone: (515) 281-7017
APPROXIMATE DISCHARGE DATE:	April 1, 2016
TOTAL AREA OF SITE:	21.81 Acres
DISTURBED AREA:	22.42 Acres
PRE-CONSTRUCTION RUNOFF COEFFICIENT:	0.20
POST-CONSTRUCTION RUNOFF COEFFICIENT:	0.75
CONSTRUCTION ACTIVITY:	Construction of a residential apartment complex. Construction activities shall include clearing and grubbing, excavation, topsoil stripping, stockpiling and respread, final grading, construction of temporary exit and staging areas, installation of utilities, access drives, parking lots and building construction
EXISTING SOIL CLASSIFICATIONS:	Canisteo, Nicollet and Clarion
RUNOFF DESTINATION:	Runoff will exit at 4 locations and travel approximately 1200' to 2500' to an unnamed tributary of Walnut Creek via overland flowage, storm sewer and ditches.

SITE ASSESSMENT:

Existing Site Conditions

Alice Patricia Homes is located directly west of the intersection of Alice's Road and 284th Lane in Waukee, IA. The site consists of existing row crops that generally slope from high point in the center of the site to the south towards an existing drainage swale and to the north towards an existing farm field. Existing slopes range from 0.5 to 35 percent. The 21.81 acre site contains no prairie grasses, trees or buildings.

Adjacent Properties

Alice Patricia Homes is bordered by NE Alice's Road to the east, agricultural property to the north, single family residential to the west, and a Mid-American substation to the south. The property east of NE Alice's Road lies in Clive and is developed as single family residential. The undeveloped agricultural property to the north will be developed in 2016 as single family and multi-family residential.

Receiving Waters

According to the USGS map provided in Section 6 of the SWPPP, the water from this site will run north or south into an unnamed tributary of Walnut Creek.

A site review or study has not been completed on Walnut Creek to determine if the waters were impaired or subject to Total Maximum Daily Loads (TMDL's). However, the U.S. Environmental Protection Agency does provide information on different watersheds in Iowa. Walnut Creek falls within the North Raccoon watershed and Walnut Creek was not on the list of impaired waters.

Existing Soil Conditions

A soil survey distributed by the Natural Resources Conservation Service (NRCS) was used to identify the soil types for this project site. A map showing the soils survey for this property can be found in Section 6 of the SWPPP. The three soils identified for this area are Canisteo, Nicollet and Clarion. According to the NRCS, Canisteo soils are considered poorly drained soils and a part of the C/D hydrologic soil group. Nicollet soils are considered poorly drained soils and a part of the B/D hydrologic soil group. Clarion soils are considered well drained soils and a part of the B hydrologic soil group.

Proposed Site Improvements

Silver Oak Inc is planning to develop the property into a residential apartment complex including a Clubhouse and pool. Soil disturbing activities for the entire development will consist of clearing and grubbing, installing stabilized construction exits, topsoil stripping, stockpiling and respread, overall grading, installation of storm water management devices, detention basin outlet structure installation, storm sewer, water main, sanitary sewer, franchise utilities, construction of roads, access drives and parking lots, final seeding and mulching, landscaping and building construction.

Proposed drainage patterns for this site will generally follow the existing drainage patterns. Proposed slopes and flow patterns vary across the development ranging from 1 to 50 percent. There are four discharge points for this site. Discharge Point #1 is located in the northwest corner of the site. Water flows overland to intakes/storm sewer that flow towards a retention basin in the northwest corner. Water exits the basin through a temporary standpipe and storm sewer to the north where water is discharged into a temporary drainage swale. Discharge Point #2 is located in the northeast corner of the property. Water flows overland towards the NE Alice's Road ditch where water is routed under NE Dellwood Drive through a storm culvert. Water from the culvert exists to the northeast eventually outletting into an unnamed tributary of Walnut Lake. Discharge Point #3 is located in the south central portion of the property. Water flows overland to intakes/storm sewer that discharge into one of two detention basins. The water from the central basin flows south through a temporary standpipe/storm sewer discharging into a retention pond. Water from the retention pond flows through a temporary standpipe/storm sewer and intakes into a drainage swale that flows between the Mid-American Energy substation and NE Alice's Road eventually discharging into an unnamed tributary of Walnut Creek. Discharge Point #4 is located in the southeast corner of the property. Water flows overland towards the Alice's Road ditch then travels through a roadway culvert. The culvert discharges south into the Alice's Road ditch eventually outletting into an unnamed tributary of Walunt Creek.

Site Features and Areas to be Protected

Any existing utilities and public streets surrounding the site shall remain undisturbed, except when installing a utility, driveway or street connection.

DISCHARGE POINT SUMMARY					
Drainage Area No.	Area (Acres)	Length to Stream	Methods for Routing Storm Water	Proposed Erosion Control Methods	Storm Water Flow Description During Construction
1	7.13	±2500 feet to an unnamed tributary of Walnut Creek	Overland flowage, storm sewer and drainage swales	Silt fence, inlet protection, temporary sediment basins, and riprap	Storm water will flow overland across the cleared and graded area into storm sewer/intakes that lead to a proposed detention basin discharging through storm sewer to the north eventually outletting into an unnamed tributary to Walnut Creek.
2	0.50	±2500 feet to an unnamed tributary of Walnut Creek	Overland flowage, storm sewer and drainage swales	Silt fence and riprap	Storm water will flow overland across the cleared and graded area into the Alice's Road ditch north and into an unnamed tributary to Walnut Creek.
3	14.43	±1200 feet to an unnamed tributary of Walnut Creek	Overland flowage, storm sewer and drainage swales	Silt fence, inlet protection, temporary sediment basins, and riprap	Storm water will flow overland across the cleared and graded area into storm sewer/intakes to a proposed detention basin exiting through storm sewer to the south eventually discharging into an unnamed tributary to Walnut Creek.
4	0.36	±1200 feet to an unnamed tributary of Walnut Creek	Overland flowage, culvert and drainage swale	Silt fence and riprap	Storm water will flow overland across the cleared and graded area to the Alice's Road ditch outletting through storm sewer to the south eventually discharging into an unnamed tributary to Walnut Creek.

SCOPE:

This Storm Water Pollution Prevention Plan was developed consistent with the requirements of the National Pollutant Discharge Elimination System (NPDES) storm water permit issued by the Iowa Department of Natural Resources. The Contractor shall be responsible for managing the discharge of storm water from the construction site in accordance with the permit and the following provisions of this SWPPP. The Contractor shall be responsible for conducting the storm water management practices in accordance with the above mentioned permit and shall be responsible for providing qualified inspectors to conduct the inspections as required by the SWPPP. It shall be the responsibility of the Contractor to make any changes to the SWPPP as necessary when the Contractor or any of their subcontractors performs work onsite that changes the construction site.

The SWPPP contains forms that must be signed by the General Contractor and any subcontractor performing work onsite identifying the company name, contact information and person responsible for ensuring that their company will abide by the permit and requirements of the SWPPP. The certification statement must be signed providing verification that they have been instructed on how to comply with and fully understand the requirements of the Iowa Department of Natural Resources and the SWPPP. The certifications must be signed and filed in the project's SWPPP.

The SWPPP is meant to be a working document that shall be maintained and updated at all times throughout the project and shall be kept onsite until the site complies with the final stabilization requirements and a Notice of Discontinuation (NOD) has been submitted. This document shall be readily available upon request by the Owner or any other regulatory authority over storm water issues. A sign or other notice must be posted near the main entrance of the construction site providing contact information for the person responsible for the SWPPP. The Contractor or Owner shall also retain a copy of the SWPPP for a period of at least three years from the date the permit coverage expires or is terminated.

It shall be the responsibility of the Contractor to amend the plan whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the potential for the discharge of pollutants. In addition the plan shall be modified to identify any new contractor and/or subcontractor that will be responsible for implementing or maintaining a portion of the SWPPP.

CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL (COSESCO)

§204B.01 **Purpose.**

- 1.1. The U.S. EPA's National Pollutant Discharge Elimination System ("NPDES") permit program (Program) administered by the Iowa Department of Natural Resources ("IDNR") requires that cities meeting certain demographic and environmental impact criteria obtain from the IDNR an NPDES permit for the discharge of storm water from a Municipal Separate Storm Sewer System (MS4) (MS4 Permit). The City of Waukee is subject to the Program and is required to obtain, and has obtained, an MS4 Permit. The City's MS4 Permit is on file at the office of the City Clerk and is available for public inspection during regular office hours.
- 1.2. The Program requires certain individuals engaged in construction activities (applicant or applicants) to submit an application to the IDNR for a State NPDES General Permit #2. Notwithstanding any provision of this ordinance, every applicant bears final and complete responsibility for compliance with a State NPDES General Permit #2 and any other requirement of state or federal law or administrative rule.
- 1.3. As a condition of the City's MS4 Permit, the City will perform periodic monitoring and primary enforcement of the Program by adopting a CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL ORDINANCE (COSESCO) designed to achieve the following objectives:
 - 1.3.1. Any person, firm, sole proprietorship, partnership, corporation, state agency or political subdivision ("applicant") required by law or administrative rule to apply to the IDNR for a State NPDES General Permit #2 shall be subject to the terms of the COSESCO; and
 - 1.3.2. The City will perform periodic monitoring and initiate enforcement procedures when appropriate to promote applicants' compliance with State NPDES General Permits #2.
- 1.4. No state or federal funds have been made available to assist the City with monitoring and/or enforcing the Program. Accordingly, the City shall fund its monitoring and enforcement responsibilities entirely by fees imposed on the owners of properties which are made subject to the Program by virtue of state and federal law, and/or other sources of funding established by a separate ordinance.
- 1.5 Terms used in this ordinance shall have the meanings specified in the Program.

§204B.02 **Procedure for COSESCO Compliance.**

2.1 Any person, firm, sole proprietorship, partnership, corporation, state agency or political subdivision ("applicant") required by law or administrative rule to apply to the IDNR for a State NPDES General Permit #2 are subject to the terms of this ordinance.

- 2.2 Prior to the issuance of any permits by the City for construction activities on the site, an applicant shall:
 - 2.2.1 Submit to the City a copy of the site plan prepared by the applicant to meet the requirements of the state NPDES General Permit #2. The site plan shall show best management practices (BMP) control measures and a Storm Water Pollution Prevention Plan (SWPPP) applicable to the site;
 - 2.2.2 Submit a copy of the applicant's authorizations issued pursuant to applicant's State NPDES General Permit No. 2, including a copy of said permit issued by the IDNR for this site.
- 2.3 Every SWPPP submitted to the City shall:
 - 2.3.1 Comply with all existing requirements for SWPPPs promulgated by the IDNR in connection with issuance of a State NPDES General Permit #2; and
 - 2.3.2 If the applicant is required by law to file a Joint Application Form PROTECTING IOWA WATERS, IOWA DEPARTMENT OF NATURAL RESOURCES AND U.S. ARMY CORPS OF ENGINEERS, comply with all mandatory minimum requirements pertaining to such applicants; and
 - 2.3.3 Comply with all other applicable state or federal permit requirements in existence at the time of application including, but not limited to, waste at construction sites that may cause adverse impact to water quality such as building materials, concrete truck washout, chemicals, solid waste and sanitary waste.
- 2.4 All construction sites shall be furnished with a stabilized construction site entrance to handle the type and frequency of the traffic entering and exiting the site or make use of some other method designed to prevent off site tracking. Any soils tracked off site shall be cleaned up by the applicant at the end of each day or before sediments enter the public storm sewer or waters of the state. Any soils entering public storm sewer or waters of the state will be considered a violation of this ordinance.

§204B.03 Site Visit Procedures for COSESCO.

- 3.1 All site visits under this ordinance shall be conducted by a representative of the City hereinafter referred to as the "enforcement officer."
- 3.2 Any applicant that is subject to the terms of COSESCO shall allow the City or an authorized representative of the City, to enter upon applicant's private property for site visit purposes. Any representative of the City shall present credentials if so required at the time of entry.
- 3.3 The City may conduct site visits at any time.

- 3.3.1 In any calendar year, the City will visit the site a minimum of twice per year and upon the receipt of a complaint. The City will charge the applicant the amount as established by Resolution of the City Council for each such site visit until such time as the NPDES General Permit No. 2 is terminated by the IDNR;
- 3.3.2 In addition to the site visits set out in 3.3.1 the City may conduct additional site visits at the City's own expense.
- 3.4 In the event a site visit identifies an area or incident of non-compliance, the City may, at its discretion, provide applicant with a list of deficiencies that identifies the area or incident of non-compliance. In the event an enforcement action is taken, a list of deficiencies must first be provided to applicant. If a list of deficiencies is provided, the applicant shall immediately commence corrective action and shall complete corrective action within forty eight (48) hours of receiving the list. For good cause shown, the City may extend the deadline for completing corrective action, at the City's sole discretion. Failure to take corrective action in a timely manner shall constitute a violation of this ordinance.

 November 6, 2006 Ordinance #2593
- 3.5 The City shall not be responsible for the direct or indirect consequences to the applicant or to third parties for non-compliant conditions undetected by the site visit.
 - **§204B.04** Monitoring Procedures for COSESCO.
- 4.1 It shall be the applicant's duty to monitor the site daily to assure compliance with the SWPPP and General Permit No. 2.
- 4.2 It shall be applicant's duty to notify the City of any changes, alterations, transfers of coverage or sales of any property in the same manner, to the same extent and at the same time as such notification is provided to the Iowa Department of Natural Resources pursuant to the requirements of the state NPDES General Permit No. 2. Transferees must agree to the transfer in writing and must agree to fulfill all obligations of the SWPPP and the State General Permit No. 2. Absent such written confirmation of transfer of obligations, the applicant remains responsible for compliance on any lot that has been sold.
- 4.3 It shall be the applicant's duty to notify the City when all conditions of the NPDES General Permit No. 2 have been satisfied and the permit has been terminated.
 - §204B.05 Enforcement by Legal or Administrative Action.
- 5.1 Violation of any provision of this ordinance may be enforced by legal (civil) action including an action for injunctive relief.

- 5.2 Violation of any provision of this ordinance may also be enforced as a municipal infraction within the meaning of §364.22 of the Iowa Code, pursuant to the City's municipal infraction ordinance.
- 5.3 Enforcement pursuant to this section shall be undertaken by the enforcement officer upon the advice and consent of the City Attorney.
 - §204B.06 Enforcement by Order to Terminate Further Activities.
- 6.1 As an alternative to enforcement by legal or administrative action, an enforcement officer may issue an order to terminate further activities at the site under the following conditions:
 - 6.1.1 The order to terminate may be issued only for failure to implement or maintain pollution control BMPs;
- 6.2 Prior to commencing further activity at the site, the applicant shall establish correction of the deficiency by providing to the office of the enforcement officer, a written statement, signed under oath, that the deficiency has been corrected with a description, including photographs when appropriate, of the action taken to correct the deficiency.
- 6.3 If the deficiency is not corrected, the City may commence a legal or administrative action against the applicant as set forth in Section 5 above.

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ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES:

- 1. Install perimeter silt fencing and inlet protection devices.
- 2. Construct temporary construction exits/entrances and designate staging/materials storage area. Designate areas for temporary sanitary facilities, employee parking and dumpster location.
- 3. Begin clearing and grubbing operations. These operations should only take place in those areas where earthwork is expected to take place within 21 days after completion.
- 4. Begin topsoil stripping and designate area for stockpile. Topsoil shall be preserved on site.
- 5. Install silt fences around the stockpiles and temporarily stabilize stockpiles with appropriate erosion control.
- 6. Grade temporary sediment basin #1A, #1B and #3B. Install permanent outlet structures, temporary standpipes and wrap perforated riser with filter fabric.
- 7. Site grading shall begin. Contractor will be responsible for temporarily stabilizing any area that will not be disturbed for at least 21 days no later than 14 days from the last construction activity except as precluded by snow cover.
- 8. Installation of underground utilities. Install temporary standpipes on temporary sediment basin #3A.
- 9. Begin building construction.
- 10. Construct temporary concrete washout areas.
- 11. Construct all inlets and manholes as specified in the plans.
- 12. Install inlet protection devices on all intakes, rip-rap/scour stop on all outlets, and silt fence around outlets as specified on the plan. These devices shall be installed after each structure is constructed.
- 13. Prepare pavement subgrade and install pavement and sidewalks.
- 14. Prepare final backfill, grading, topsoil respread and seeding operations. Place preserved topsoil on the surface of the disturbed ground exposed and not covered by concrete, asphalt, gravel or other such material.
- 15. Finish building construction and continue to monitor SWPPP until all buildings are developed.
- 16. Once areas are established upstream of each pond, remove standpipe and convert temporary sediment basin to a permanent detention pond.
- 17. Remove all silt fence and other temporary erosion controls and stabilize any area disturbed by the removal.
- 18. Continue to monitor the site until final stabilization is reached.

EROSION AND SEDIMENT CONTROLS:

The contractor/subcontractor shall be responsible for the implementation and management of control measures for the following erosion and storm water management control measures that are specific to this site. Anyone who performs work onsite will be required to sign a certification statement making them responsible for the SWPPP and for abiding by its rules. This certification statement must be signed prior to beginning work at the site and shall be included in the SWPPP. This work shall be done in accordance with the local agency's policies and Division 9 of the Iowa Statewide Urban Design and Specifications (SUDAS). As work progresses, additional erosion control items may be required as determined by the City, engineer or other governmentally regulated agencies after field investigation.

Measures to protect undisturbed areas and topsoil stockpiles

1. Undisturbed Areas

Description: The undisturbed existing vegetative area as shown on the map shall be protected throughout construction. Vehicles and equipment will be kept away from the protected area.		
Installation Schedule:	The preserved area shall be clearly marked off before construction begins at the site.	
Maintenance and Inspection: Undisturbed areas will be inspected weekly.		

2. Topsoil Stockpile

Description: Topsoil stripped from the disturbed area will be stockpiled in a location determined by the contractor. The stockpile will be in an area that will not interfere with construction. Silt fence will be installed around the perimeter of the stockpile and the side slopes will not exceed 2:1 to help reduce erosion. After all of the topsoil has been stripped and stockpiled, it will be temporarily stabilized as specified in the soil stabilization section.

Installation Schedule:	The topsoil stockpile will be established during the grading phase of the project. Silt fence and temporary controls will be placed immediately after the stockpile is created.
Maintenance and Inspection:	The stockpile will be inspected at weekly inspections.

Perimeter Controls and Sediment Barriers

1. Silt Fence

Description: Silt fence will be installed around the perimeter of the disturbed area, except in areas where the existing grade doesn't require and at the construction exit. The topsoil stockpile will also require silt fence around the perimeter. Throughout the site silt fence is also needed to control sediment on steeper slopes and to protect inlets from sediment.

Silt fences will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan. Silt fence will be installed by excavating a 12-inch slit in the ground while simultaneously installing 6-12 inches of fabric into the ground. Steel posts will then be driven into the ground approximately 20-inches and spaced accordingly to support the silt fence. The silt fence will be fastened securely onto the posts with wire ties.

The trench will then be backfilled and compacted to prevent stormwater and sediment from passing underneath the silt fence. A "J-hook" will be constructed at the end of each run of silt fence by turning the end of the silt fence uphill to prevent sediment from escaping around the ends when water behind the silt fence ponds up to a level even with the top of the fence.

Installation Schedule:	Silt fence will be installed around the perimeter before construction begins. Silt fence will be installed around the stockpile once it is established. Other areas will require silt fence once grading is complete.
Maintenance and Inspection:	Silt fence will be inspected weekly. The inspector will review the silt fence looking for tears or gaps where the fence meets the ground. Accumulated sediment will be removed from the fence or the fence replaced once sediment reaches a level one-half of the height of the fence. If the silt fence is undermined, it will be removed and replaced. The sediment will be removed from the site or respread onsite.

Soil Stabilization

1. Erosion Control Mulching

Description: Conventional or Hydromulching shall be utilized in areas that cannot be stabilized by seeding due to season or ground conditions. Installation and materials will be according to Section 9010 of SUDAS. Conventional mulching shall be applied uniformly at a rate of 2 tons/acre for dry cereal straw or 2.5 tons/acre for prairie hay. The mulch needs to be worked into the soil with a mulch tucker or similar device designed to anchor the mulch into soil using dull blades or disks. Hydromulching shall be applied in multiple layers from opposing directions where possible. A homogeneous slurry needs to be mixed per manufacturer's recommendations. If the soil is dry, the contractor shall dampen the soil prior to application to avoid clumping of the material. The slurry shall be applied evenly over the area at the following rates: wood cellulose mulch at 2600 lb/acre dry weight and tackifier at 50 lb/acre; bonded fiber matrix at 3600 lb/acre dry weight.

Installation Schedule:	Temporary mulching shall take place in any areas that will not be disturbed for at least 21 days no later than 14 days	
_	from the last construction activity.	
	The mulched areas shall be inspected weekly. If there are	
Maintenance and Inspection:	areas that mulching has failed they shall be remulched	
	immediately.	

2. Temporary Vegetative Cover

Description: Any area that will not be disturbed for at least 21 days no later than 14 days from the last construction activity will need to have temporary seeding except as precluded by snow cover. Temporary seeding is typically done for areas that will be undisturbed for less than one year and should only be done certain times of the year. Installation, seed specifications and fertilizer specifications will be according to Section 9010 of SUDAS. The typical seeding season is from March 1st to May 31st and from August 10th to September 30th. Any area requiring seeding outside of these dates may need to be mulched until such time seeding may take place. The seedbed area requiring seeding shall be tilled to a minimum of 5 inches in depth with a disk, harrow or field cultivator. Appropriate seeding equipment shall be used to apply the area with seed. The seed shall then be covered by lightly tilling the seeded areas with a disk, rigid harrow, spring tooth harrow or field cultivator. Mulch all seeded areas with straw, wood excelsior or prairie hay the same day the seed is sown. Care should be taken to minimize the displacement of the soil.

Conventional or Hydromulching shall be utilized in areas that cannot be stabilized by seeding due to season or ground conditions. Installation and materials will be according to Section 9010 of SUDAS. Conventional mulching shall be applied uniformly at a rate of 2 tons/acre for dry cereal straw or 2.5 tons/acre for prairie hay. The mulch needs to be worked into the soil with a mulch tucker or similar device designed to anchor the mulch into soil using dull blades or disks. Hydromulching shall be applied in multiple layers from opposing directions where possible. A homogeneous slurry needs to be mixed per manufacturer's recommendations. If the soil is dry, the contractor shall dampen the soil prior to application to avoid clumping of the material. The slurry shall be applied evenly over the area at the following rates: wood cellulose mulch at 2600 lb/acre dry weight and tackifier at 50 lb/acre; bonded fiber matrix at 3600 lb/acre dry weight.

Installation Schedule:	Temporary seeding shall take place in any areas that will not be disturbed for at least 21 days no later than 14 days from the last construction activity except as precluded by snow cover.
Maintenance and Inspection:	The seeded areas shall be inspected weekly until a dense cover of vegetation is established. If there are areas that seeding has failed they shall be reseeded, fertilized and mulched immediately.

3. Permanent Vegetative Cover

Description: Permanent seeding shall take place in any area that has been final graded no later than 14 days from the last construction activity except as precluded by snow cover. Installation, seed specifications and fertilizer specifications will be according to Section 9010 of SUDAS. The typical seeding season is from March 1st to May 31st and from August 10th to September 30th. Any area requiring seeding outside of these dates may need to be mulched until such time seeding may take place. The seedbed shall be prepared to provide a smooth, firm and even surface and then tilled 2-4 inches depending on the type of seeding being performed. Equipment shall be chosen to minimize compaction or displacement of the soil. The seed shall then be mixed and sown in an appropriate manner as specified in

SUDAS. Mulch all seeded areas with straw, wood excelsior or prairie hay the same day the seed is sown. Care should be taken to minimize the displacement of the soil.

Conventional or Hydromulching shall be utilized in areas that cannot be stabilized by seeding due to season or ground conditions. Installation and materials will be according to Section 9010 of SUDAS. Conventional mulching shall be applied uniformly at a rate of 2 tons/acre for dry cereal straw or 2.5 tons/acre for prairie hay. The mulch needs to be worked into the soil with a mulch tucker or similar device designed to anchor the mulch into soil using dull blades or disks. Hydromulching shall be applied in multiple layers from opposing directions where possible. A homogeneous slurry needs to be mixed per manufacturer's recommendations. If the soil is dry, the contractor shall dampen the soil prior to application to avoid clumping of the material. The slurry shall be applied evenly over the area at the following rates: wood cellulose mulch at 2600 lb/acre dry weight and tackifier at 50 lb/acre; bonded fiber matrix at 3600 lb/acre dry weight.

Installation Schedule:	Permanent seeding shall take place in any areas that have been final graded no later than 14 days from the last
	construction activity except as precluded by snow cover.
Maintenance and Inspection:	The seeded areas shall be inspected weekly until a dense cover of vegetation is established. If there are areas that seeding has failed they shall be reseeded, fertilized and
	mulched immediately.

4. Dust Control

Description: Dust control shall be used in areas that are susceptible to wind erosion. Installation will be according to Section 9 of SUDAS and shall be used as needed based on weather and site conditions. The most common dust control agent is water. It should be applied frequently to any ground surface that has problems with dirt particles becoming airborne which could result in low visibility, health hazards or offsite damage to surrounding properties. Chemical agents such as Calcium Chloride, Lignosulfonate or Soapstock can also be used.

Installation Schedule:	Dust Control shall be applied in any areas that have problems with controlling wind erosion causing dust particles to become airborne resulting in low visibility, health hazards or offsite damage to surrounding properties.
Maintenance and Inspection:	The exposed earth areas shall be inspected weekly to determine if there are any areas requiring dust control.

5. Topsoil Placement

Description: All topsoil stripped from the construction site shall be preserved and stock piled onsite unless the land use precludes the practice. If the topsoil is not able to be stock piled onsite, the Contractor shall receive permission from the owner as well as governing local authority to temporarily store offsite. After the site has been final graded and prior to permanent vegetative cover being placed, the Contractor shall re-spread topsoil to a depth as specified within the plans on all areas of the site where the ground surface will be exposed and not covered by concrete, asphalt, gravel or other such material. Should topsoil need to be hauled onsite, the soil characteristics shall be similar to the that which existed prior to soil disturbing activities or is consistent with surrounding properties.

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Installation Schedule:	Topsoil respreads shall occur after soil disturbing
	activities have been completed and before final
	stabilization is scheduled to occur.
V	The topsoil shall be inspected prior to seeding/sodding. If
Maintenance and Inspection:	there are areas where the topsoil has been displaced the
	Contractor shall fix immediately.

Storm Sewer Inlet and Outlet Protection

1. Drop-In Intake Protection

Description: Drop-In intake manufactured devices are one way to provide inlet protection in paved areas. Installation will be according to Section 9 of SUDAS, the manufacturer's specifications and at locations shown on the Erosion and Sediment Control Plan. The devices should be inserted into the stormwater intakes so they are entirely contained below the paving surface within the intake. It shall have the ability to trap sediment before entering the storm sewer system and be designed with an emergency overflow to prevent flooding of surrounding areas.

Installation Schedule:	Drop-In intake devices will be installed once the intakes
	are installed and paving is complete.
Maintenance and Inspection:	Drop-In intake devices will be inspected weekly. The
	inspector will review the devices looking for the build up
	of sediment. The sediment will be removed from the site
	or respread onsite.

2. Silt Fence

Description: A silt fence barrier will be constructed around all storm sewer intakes in grass vegetative swale areas and around any intakes located in future paved areas. Silt fences will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan. Silt fence will be installed by excavating a 12-inch slit in the ground while simultaneously installing 6-12 inches of fabric into the ground. Steel posts will then be driven into the ground approximately 20-inches and spaced accordingly to support the

silt fence. The silt fence will be fastened securely onto the posts with wire ties. The trench will then be backfilled and compacted to prevent storm water and sediment from passing underneath the silt fence. The silt fence will be installed in an enclosed rectangle shape around each inlet to prevent silt from entering the intake area.

Installation Schedule:	Silt fence will be immediately placed around the intakes once they have been installed. The silt fence around the intakes in future paved areas will be removed once the subgrade preparation is complete for paving.
Maintenance and Inspection:	Silt fence will be inspected weekly. The inspector will review the silt fence looking for tears or gaps where the fence meets the ground. If silt fence is undermined, it will be removed and replaced. Accumulated sediment will be removed from the fence or the fence replaced once sediment reaches a level one-half of the height of the fence. The sediment will be removed from the site or respread onsite.

3. Rock Outlet Protection

Description: A layer of crushed revetment stone or erosion stone will be constructed around flared end section outlets to protect a channel downstream from erosion and to help dissipate high velocity flows. The stone will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan. All revetment will be installed at a depth no less than 18 inches.

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Installation Schedule:	The stone will be immediately placed around the flared end sections once they are installed.
Maintenance and Inspection:	The rock outlets will be inspected weekly. The inspector will review the rock looking for areas that have washed away and need replaced. The inspector shall also look for any areas where the build-up of sediment has occurred. Accumulated sediment will be removed and disposed of offsite or respread onsite.

Temporary Sediment Basin

1. Sediment Basin

Description: There is one temporary sediment basin being proposed on this site. The basin is located in the southwest corner of the property. The sediment basin has been designed to provide 3,600 cubic feet of storage volume per acre of disturbed area and a temporary standpipe has been designed to release the 2-year peak storm event over a 6-hour period. The calculations for these sediment basins and construction details of the standpipes can be found in Section 4 of the SWPPP. For storm events greater than 2-years, the water will temporarily overflow a grassed overflow weir. Installation will be according to Section 9 of Iowa SUDAS Standard Specifications and at locations shown on the Erosion and Sediment Control Plan.

The following procedure must be adhered to by the contractor when removing the temporary sediment basin.

- 1. Do not remove a sediment basin until the upstream area has been fully developed and stabilized with vegetation. The only exception to this shall be if the upstream property has been transferred to another entity that is responsible for their own SWPPP and NPDES Permit. Consult with the erosion and sediment control inspector prior to the removal to ensure that the timing is appropriate. Maintain any silt fence and riprap downstream of the pond outlet to ensure offsite properties are protected from sediment leaving the site.
- 2. Dewater the basin through pumping, or other acceptable construction practices and make sure the effluent is filtered by a method approved by the erosion and sediment control inspector.
- 3. Remove accumulated sediment (as needed) to establish the final grade of the basin area as illustrated in the construction documents. Sediment must be disposed of in an area approved by the erosion and sediment control inspector.
- 4. Remove temporary stand pipe (if applicable).
- 5. Final grade the basin area, respread topsoil and roughen the area to prepare it for final vegetative restoration.
- 6. If the basin is being converted to a permanent facility, remove temporary stand pipe and inspect and clean out outlet structure to ensure it is clean and no build-up of sediment has occurred. If a build-up of sediment is present the Contractor will be responsible for jetting out or cleaning the pipe.

7. Maintain restored area until vegetation is established.

Installation Schedule:	The sediment basin and temporary stand pipe will be graded and constructed at the time mass grading is taking place.
Maintenance and Inspection:	The stand pipe and sediment storage area will be inspected weekly. The inspector will look for erosion and damage along the banks of the basin. The inlets, outlets and spillway will be checked for damage, plugging or a build up of sediment. Any repairs needed will take place immediately by the contractor. Accumulated sediment will be removed from the sediment storage area once sediment reaches a level one-half of the depth of sediment capacity. The sediment will be removed from the site or respread onsite.

Stabilized Construction Exits

1. Stabilized construction exit

Description: Temporary stabilized exits will be installed at any areas leaving the site that have potential of construction traffic tracking sediment on to existing paved areas. The exit area will be installed at a minimum of 150 feet in length and consist of a 3" crushed rock at a minimum depth of 6 inches. A layer of geotextile filter fabric may need to be installed prior to the rock in order to reduce the displacement of soil underneath the crushed rock. The exit shall be flared at the end closest to the paved areas to provide greater protection. The exit should be graded to prevent runoff from flowing onto the existing paved areas. The

construction exit will be installed according to Section 9 of SUDAS and at locations shown on the Erosion and Sediment Control Plan.	
Installation Schedule:	The stabilized exit will be installed before construction beings on the site and shall remain until the subgrade of any paved areas is prepared and final grading is complete and seeding has taken place.
Maintenance and Inspection:	The stabilized exits will be inspected weekly. The exit to the site will be kept in a condition that will prevent the tracking of sediment onto existing paved areas. All sediment that is tracked or spilled will be cleaned up immediately. The inspector will review the exit for any clogging of the voids in the stone. Once the stabilized exit is no longer keeping sediment from being tracked offsite the contractor will replace the rock. Any sediment collected from the stabilized exit or from offsite paved areas will be removed from the site or respread onsite.

POST CONSTRUCTION MEASURES:

Potential storm water pollutants after completion of construction are expected to be typical of this type of development. Expected pollutants include automobile pollutants (oil, grease, antifreeze, brake dust, rubber fragments, gasoline, etc.), yard pesticide and fertilizer runoff, vehicle wash water, salt and sand during winter month snow removal and improper garbage disposal. Permanent measures have been integrated into the site plan to improve the storm water quality and capture some of these typical pollutants before they leave the site.

Detention Ponds

Description: Three detention pond features are being constructed as specified in the construction drawings which will provide a dry bottom storage pond for storm water running off of this site. The majority of the water from this project area will flow into the pond through storm sewers or vegetated swales. Detention is being provided in the pond and flows are being restricted during large rain events to protect downstream properties. The 100-year water elevation of the pond located along the western property boundary is set at an elevation of 1015.05 and the overflow of the pond is set at an elevation of 1017.45. The 100-year water elevation of the pond located in the southwest corner of the property is set at an elevation of 1015.05 and the overflow of the pond is set at an elevation of 1016.93. The 100-year water elevation of the pond located in the northwest portion of the property is set at an elevation of 1015.24 and the overflow of the pond is at an elevation of 1017.76.

Maintenance and Inspection:

After construction is complete in the development and the NPDES permit is discontinued, the pond needs to be inspected annually. Remove all trash, litter, debris or obstructions in the basin. Plant, mow, maintain and replant vegetation as needed to keep permanent vegetation around the pond. Inspect the pond for any defects, obstructions or changes to the original design. Any deficiencies need to be repaired to conform to the original design.

Rock Outlet Protection

Description: A layer of crushed revetment stone or erosion stone will be constructed around all flared end section outlets to protect a channel downstream from erosion and to help dissipate high velocity flows.

Maintenance and Inspection:

After construction is complete in the development and the NPDES permit is discontinued, all storm sewer outlets and other point discharge areas need to be inspected annually. The rock outlets need to be inspected for any areas that have washed away and need replaced. These areas should be repaired immediately to conform to the original design.

Vegetative Buffer

Description: Sod or seed will be installed between the R.O.W. line and the public street. Water will enter the vegetative layer before hitting the street and storm sewer and will either absorb into the ground or will be filtered by the grass.

Maintenance and Inspection:

After construction is complete, the vegetation is established and NPDES permit is discontinued, all vegetative areas will be maintained by the adjacent property owners. These areas will need to be inspected for bare spots and reseeded if necessary for repair. These areas should be repaired immediately to conform to the original design.

Retention Pond

Description: Two pond features are being constructed as specified in the construction drawings which will provide a natural water quality element for storm water running off of this site. The majority of the water from this project area will flow into the pond through storm sewers or vegetated swales. The pond will also be utilized as a temporary sediment basin during construction. Detention is being provided in the pond and flows are being restricted during large rain events to protect downstream properties. The normal pool elevation of Pond #1 located in the northwest corner is set at an elevation of 1011.00 and the overflow of the pond is set at an elevation of 1018.52. The normal pool elevation of Pond #2 located in the southeast corner is set at an elevation of 1009.69 and the overflow of the pond is set at an elevation of 1015.98.

Maintenance and Inspection:

After construction is complete in the development and the NPDES permit is discontinued, the pond needs to be inspected annually. Remove all trash, litter, debris or obstructions in the basin. Plant, mow, maintain and replant vegetation as needed to keep permanent vegetation around the pond. Inspect the pond for any defects, obstructions or changes to the original design. Any deficiencies need to be repaired to conform to the original design.

INSPECTION AND MAINTENANCE PROCEDURES:

The contractor is required to maintain all temporary erosion control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. The following inspection and maintenance practices will be used to maintain erosion and sediment controls and stabilization measures.

- 1. All control measures will be inspected at least once every seven (7) calendar days.
- 2. All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of the report and completed within 7 days of the event.
- 3. A maintenance inspection report will be made after each inspection and recorded in the project diary. The report must be signed by a "qualified" inspector in accordance with General Permit #2. The report shall include the inspector's findings related to the condition of any existing erosion control devices or newly seeded areas, the condition of the construction exit and review of any offsite tracking, and the inspection of any equipment storage and maintenance areas for any fuel, oil or other pollutant leaks. The inspector shall also review the discharge points from the site to ensure there is no evidence of pollutants leaving the site.
- 4. The contractor/owner will be responsible for selecting a "qualified" inspector to conduct the inspections. "Qualified" is defined as a person knowledgeable in the principles and practices of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activity. The inspector shall also possess knowledge in the appropriate governmental agency's storm water pollution prevention and/or environmental ordinances and be able to provide the agency with any information or data requested within the time frame required by that agency. SWPPP inspectors shall also have a basic knowledge of hydrology, soil mechanics and comprehension of construction drawings and specifications. A general understanding of the equipment and materials used in managing erosion and sediment on a project site will also be required.
- 5. The contractor/owner will be responsible for maintaining records for 3 years from the date the site is finally stabilized.

GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

Site sources of pollution generated as a result of this work related to silts and sediment which may be transported as a result of a storm event. However, this SWPPP provides conveyance for other (non-project related) operations. These other operations have storm water runoff, the regulation of which is beyond the control of this SWPPP. Refer to later sections for a complete list of potential pollutants that may be located onsite.

Product Specific Practices

The following is a list of potential sources of pollution and specific practices to reduce pollutants discharges from materials or sources expected to be present onsite during construction.

1. Staging Area

Description: A staging area will be constructed which provides a place for the storage of construction equipment, maintenance materials, vehicle parking, construction trailer, building materials, hazardous-waste materials, waste receptacles, concrete washout areas and portable restroom facilities. The contractor will be responsible for designating this area and providing appropriate storage areas. Rock may be required in the staging area to avoid track out from the site. The site superintendant is responsible for training all personnel on the proper locations for the storage of materials. All materials will be stored in an area to minimize exposure to storm water conveyances and drains.

Installation Schedule:	The staging area will be installed after grading and before any infrastructure is constructed at the site.	
Maintenance and Inspection:	The staging area will be inspected weekly. The inspector will review the area to make sure it is kept clean, well organized and equipped to store the appropriate materials and equipment.	

2. Sanitary Wastes

Description: Temporary portable restroom facilities will be provided at the site in the staging area and shall remain throughout construction. The facilities will be located in an area away from storm water conveyances, drains and traffic flow. Wastes will be collected and disposed of in complete compliance with local, state and federal regulations.

Installation Schedule:	Portable restroom facilities will be installed once the	
instanation Schedule:	staging area is constructed.	
	The restroom facilities will be inspected weekly. The	
Maintenance and Inspection:	inspector will look over the facilities for evidence of any	
	leaking holding tanks. It will be the site superintendant's	
	responsibility to make sure the portable restroom facilities	
	are cleaned out on a regular basis to ensure they do not	
	exceed their capacity.	

3. Trash and Construction Debris Disposal

Description: All trash materials will be collected and disposed of into designated trash receptacles or dumpsters located in the staging area. All trash containers will have a secured lid, be placed in an area away from storm water conveyances and drains, and meet all local and state solid waste management regulations. No construction debris will be allowed to be buried onsite. Trash placed in the receptacles will only be trash related to construction on the construction site. The site superintendant is responsible for training all personnel on the correct procedure for the disposal of trash and construction debris.

Installation Schedule:	Dumpsters and/or trash receptacles will be installed once
instanation Schedule:	the staging area is constructed.
	The dumpsters will be inspected weekly. The inspector
Maintenance and Inspection:	will review the dumpsters to see if they are exceeding
	their capacity as well as review the site to ensure trash and
	construction debris is being properly disposed of. It will
	be the site superintendant's responsibility to make sure the
	dumpsters and/or trash receptacles are emptied on a
	regular basis.

4. Recycling Areas

Description: All trash materials such as wood pallets, cardboard boxes and other recyclable construction scraps will be disposed of in a designated dumpster for recyclable materials. All trash containers will have a secured lid, be placed in an area away from storm water conveyances and drains, and meet all local and state solid waste management regulations. No construction debris will be allowed to be buried onsite. Trash placed in the receptacles will be only trash related to construction on the construction site. The site superintendant is responsible for training all personnel on the correct procedure for the disposal of trash and construction debris.

Installation Schedule:	Dumpsters and/or trash receptacles will be installed once
	the staging area is constructed.
	The dumpsters will be inspected weekly. The inspector
Maintenance and Inspection:	will review the dumpsters to see if they are exceeding
	their capacity as well as review the site to ensure trash and
	construction debris is being properly disposed of. It will
	be the site superintendant's responsibility to make sure the
	dumpsters and/or trash receptacles are emptied on a
	regular basis.

5. Hazardous Materials

Description: All hazardous waste materials such as petroleum products, motor oil, oil filters, paint, paint stripper, fertilizers, pesticides, cleaning solvents, detergents, aerosol lubricants and construction equipment maintenance fluids will be stored in a designated hazardous materials storage area. All hazardous materials will be disposed of in accordance with local, state and federal regulations and will not be disposed of into on-site trash receptacles. Products will be stored in their original containers with the material safety data labels intact. The storage of all hazardous waste materials will be located in an area away from storm water conveyances, drains and traffic flow. The site superintendant is

responsible for training all personnel on the correct procedure for the disposal and handling of hazardous materials.		
Installation Schedule:	Once any hazardous waste materials are brought onsite for storage the contractor will designate an area for hazardous waste storage.	
Maintenance and Inspection:	The hazardous material storage area will be inspected weekly. The inspector will review the area to make sure it is kept clean, well organized and equipped to store the appropriate materials. It will be the site superintendant's responsibility to make sure procedures are in place to deal with a hazardous waste spill and for training all personnel on the correct procedure for the disposal and handling of all of the hazardous materials.	

6. Vehicle/Equipment Fueling and Maintenance

Description: Vehicle fueling and minor maintenance may take place onsite. Onsite petroleum storage tanks may be present onsite and stored within the staging area. When vehicle fueling must occur onsite, the fueling activity will take place in the staging area and care should be taken to minimize fuel spills. Should a spill occur the contractor is responsible for providing absorbent, spill-cleanup materials and/or a spill kit. Only minor maintenance of construction vehicles will be allowed onsite. All equipment fluids and wastes generated will be properly disposed of at a hazardous waste disposal site designated by the contractor. Construction vehicles should be inspected and monitored daily for leaks. Leaks will be repaired immediately and/or the vehicle immediately removed from the site until it is repaired. The maintenance and fueling of all vehicles and equipment will be located in an area away from storm water conveyances and drains. The site superintendant is responsible for training all personnel on the correct procedures for fueling and maintenance of construction vehicles and equipment.

Installation Schedule:	Vehicle/Equipment fueling and maintenance procedures
installation Schedule.	will be implemented at the beginning of construction.
	The inspector will review vehicle/equipment storage areas weekly. The inspector will review the area to make sure there are no visible spill areas.
Maintenance and Inspection:	The site superintendant is responsible for inspecting vehicles and equipment daily for leaks and must keep an ample supply of spill-cleanup materials or spill kits on hand. It will be the site superintendant's responsibility to make sure all personnel are trained on the correct procedures for fueling and maintenance of construction vehicles and equipment.

7. Concrete Washout Areas

Description: Concrete trucks will be allowed to washout or discharge excess concrete in specifically designated areas. The washout will be installed as shown on the detail provided in Section 4 of the SWPPP. The washout area should be constructed at a minimum length and width of 10 feet and will be lined with a 10 mils thick plastic lining. Filter sock will be installed surrounding the washout area to prevent the spillage of concrete. The site superintendant is responsible for posting signs at the washout locations to ensure concrete operators use the proper facility.

The site superintendant will be responsible for cleaning out the washout pit once it becomes 75% full. The hardened product from the concrete washout areas will be disposed of as other non-hazardous waste materials or may be broken up and used on the site for other appropriate uses. Once the temporary washout areas are no longer needed, the materials will be removed and disposed of and the areas will be backfilled, graded and permanently stabilized.

Installation Schedule:	The washout areas will be constructed once paving operations begin onsite.
Maintenance and Inspection:	The concrete washout areas will be inspected weekly. The inspector will review the area to make sure there are no tears in the plastic lining and that the concrete operators are disposing of excess concrete properly. Accumulated hardened concrete will be removed from the washout area once it is filled 75% of its holding capacity. The product removed will be removed from the site or may be broken up and used on the site for other appropriate uses.

8. Rural Agricultural Activities

Description: Runoff from surrounding agricultural land use can potentially contain	
chemicals including herbicides, pesticides, fungicides and fertilizers as well as sediment.	
Maintenance and Inspection:	Any surrounding agricultural use that naturally slopes onto the site will be inspected weekly. The inspector will look for any sediment or chemicals coming on to the property.

POLLUTANT SPILL PREVENTION AND RESPONSE PROCEDURES:

The site superintendant is responsible for training all personnel in the proper handling and cleanup of spilled materials. No spilled hazardous materials or wastes will be allowed to come into contact with storm water discharges. If contact does occur, the storm water discharge will be contained onsite until appropriate measures in compliance with all federal, state and local regulations are followed to dispose of the hazardous substance. The following practices will be followed for spill prevention and cleanup.

General Materials Handling Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be done to minimize the potential for hazardous material spills and to reduce the risk of the spill coming in contact with storm water.

- 1. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.
- 2. Emergency contacts for the project will be posted at the project office.
- 3. Materials and equipment necessary for spill control, containment and cleanup will be provided onsite in a material storage area. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, plastic and metal trash containers, plastic bags and oil absorbent pads. Spill response equipment will be inspected and maintained as necessary to ensure the proper supplies are available during a spill.
- 4. Potential pollutants will be stored and used in a manner consistent with the manufacturer's instructions in a secure location. To the extent practicable, material storage areas should not be located near storm drain inlets and should be equipped with covers, roofs, or secondary containment as needed to prevent storm water from contacting stored materials. Chemicals that are not compatible shall be stored in segregated areas so that spilled materials cannot combine and react.
- 5. Materials disposal will be in accordance with the manufacturer's instructions and all federal, state and local regulations. Adequate garbage, construction waste and sanitary waste handling and disposal facilities will be provided to the keep potential pollutants from contaminating the construction site.
- 6. Only those materials needed for construction shall be stored onsite and when they are no longer needed they should be removed from the site as soon as practicable.
- 7. All pollutants, including but not limited to waste materials and demolition debris, that occur onsite during construction will be handled in a way that does not contaminate storm water.
- 8. All chemicals including but not limited to liquid products, petroleum products, water treatment chemicals and wastes stored on site will be covered and contained.
- 9. Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, de-greasing operations, fuel tank drain down and removal, and other activities which may result in the release of contaminants, will be conducted under cover during wet weather and on an impervious surface to prevent the release of contaminants onto the ground. Materials spilled during these operations will be cleaned up immediately and properly disposed of.
- 10. Any application of agriculture chemicals, including fertilizers and pesticides, will be conducted in a manner and at application rates that will not result in the loss of chemical to storm water runoff. Manufacturer's recommendations will be followed for application rates and procedures.

Spill Response

The site superintendent will be responsible for the day-to-day site operations and will be the spill prevention and cleanup coordinator. He or she will designate at lease three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of these individuals will be posted in the material storage area and in the office trailer. In the event of a spill, the following procedures will be followed immediately to prevent the release of pollutants.

- 1. The site superintendent is to be notified immediately when a spill or the threat of a spill occurs. The superintendent will be responsible for reviewing the situation and determining the appropriate response.
- 2. If the contaminant represents an imminent threat of polluting storm water, leaving the construction site and entering into receiving waters the Contractor needs to take immediate action to contain the release.
- 3. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substance.
- 4. A list of emergency response contractors provided by the Iowa Department of Natural Resources is provided in Section 6 of this SWPPP. Ensure that any contractor hired is in compliance with all OSHA regulations for emergency response personnel.

Notification

Spills of a toxic or hazardous material will be reported to the appropriate federal, local or state governmental agency and Owner, regardless of the size of the spill. The job site superintendent will be responsible for contacting the governmental agencies. Refer to Section 6 of this SWPPP for a copy of the *Iowa Administrative Code Chapter 131: Notification of Hazardous Conditions* which outlines the guidelines for reporting hazardous conditions. In the event of a spill, make the appropriate notifications as follows:

- 1. Any oil, hazardous substance or hazardous waste spills of amounts that exceed Federal Reportable Quantity (RQ) of certain substances specifically mentioned in federal regulations must be immediately reported to the EPA National Response Center Hotline at (800) 424-8802 or (202) 426-2675.
- 2. Within 30 days of the incident, a Written Report for Hazardous Conditions which is included in Section 6 of this SWPPP must be filled out and submitted to the Iowa Department of Natural Resources via mail, fax or electronic mail at the following address:

IDNR Emergency Response 401 SW 7th Street, Suite I Des Moines, IA 50309 Fax: (515) 725-0218

Email: Emergency Response@dnr.state.ia.us

- 3. Any spill of a hazardous substance must be reported within 6 hours by telephone to the Iowa Department of Natural Resources at (515) 281-8694 and the local Sheriff's office.
- 4. If the spill exceeds a reportable quantity, the SWPPP must be modified within 5 calendar days after the spill and a written description of the events must be included. The modification shall include: a description of the release; the date of the release; an explanation of why the spill happened; a description of procedures to prevent future spills and/or releases from happening; and a description of response procedures should a spill or release occur again.

LISTING OF POTENTIAL POLLUTANT IMPACTS ON WATER QUALITY:

The following is a list of potential pollutants that may be present on construction sites. Material Safety Data Sheets (MSDS) for each substance with hazardous properties that are used on the job site shall be filed at the job site construction trailer office. Refer to the MSDS's for substances with hazardous properties that are specific for this site.

Construction Material	Pollutants
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic
Fertilizer	Nitrogen, phosphorous
Erosion	Soil, Sediment
Plaster	Calcium sulphate, calcium carbonate, sulfuric acid
Cleaning Solvents	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates
Hot-Mix Asphalt	Oil, petroleum distillates
Tar/black-jack	Oil, petroleum distillates, methylene chloride, trichloroethylene
Concrete	Limestone, sand, cement, fly ash, lime
Concrete Admixture – Accelorators	Calcium chloride, triethanolamine, sodium thiocyanate, calcium formate, calcium nitrite, calcium nitrate
Concrete Admixture – Air Entraining	Salts of wood resins, salts of sulfonated lignin, salts of petroleum aceds, solts of proteinaceous material, fatty and resinous acids, alkylbenzene sulfonates, salts of sulfonated hydrocarbons
Coloring Concrete Admixture	Modified coarbon black, iron oxide, phthalocyanine, umber, chromium oxide, titanium oxide, cobalt blue
Concrete Pumping Aids	Organic and synthetic polymers, organic flocculents, organic emulsions of paraffin, coal tar, asphalt, acrylics, bentonite and pyrogenic silicas, hydrated lime
Concrete Retarders	Lignin, borax, sugars, tartaric acid and salts
Concrete Shrinkage Reducers	Polyoxyalkylene alkyl ether, propylene glycol
Concrete Admixture – Superplasticizers	Sulfonated melaminie formaldehyde condensates, sulfonated naphthalene formaldehyde condensates, lignosulfonates, polycarboxylates

Concrete Admixture – Water Reducer	Lignosulfonates, hydroxylated carboxylic acids, carbohydrates
Curing Compounds	Naphtha
Caulk	Mineral spirits, thylene glycol
Sealants	Toulene, n-hexane, silica quartz, calcium carbonate, silica, amorphous
Intumescent Fire-Stop Sealant	Calcium carbonate, ammonium polyphosphate, boron trioxide, talc, zinc oxide, ethylene glycol, polybutene, iron oxide
Sanitary Waste & Pathogens from Temporary Restroom Facilities	Nitrates
Floatables	Litter such as plastic containers, wrappers, cans, cigarettes, etc.
Soil Stabilization Additives	Sodium Silicate, Calcium Chloride
Dust Control Agents	Calcium chloride, tree resin emulsion, lgnin, oil rosin, soybean oil, polymers
Vehicle Exhaust	Benzene, xylend, toluene, furans, plycyclic aromatic hydrocarbons (PAH's), benzoapyrene
Detergents	Organic chemicals, ammonia, ethanol, methanol, chromic acid
Glue, adhesives	Polymers, epoxies
Paints	Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic
Paint Stipper	Petroleum distillate, petroleum hydrocarbon
Wastewater from Construction Equipment Washing	Soil, oil & grease, solids
Wood Preservatives	Stoddard solvent, petroleum distillates, arsenic, copper, chromium
Wood Fillers	Magnesium carbonate, limestone, kaolin, black carbonate, silica, amorphous
Wood dust / Saw dust	Pulp, methylcellulose, cellulose pulp
Styrofoam	Plystyrene, chlorodifluoroethane, ethyl chloride
Gypsum Board	Calcium sulfate dehydrate, paper, clay, vermiculate
Epoxy resin / Fiberglass Insulation	1-methyl ethylidene, chloromethyl, oxirane, 2- pentanone, acetic acid
Hydraulic oil/fluids	Mineral Oil
Motor Oil	Aliphatic hydrocarbon, xylene, naphthalene, biphenyl

Aerosol Lubricant	Naphtha, paraffin oil, ethanol, ethyl hexyl
Aerosoi Lubricani	alcohol
Gasoline	Benzene, ethyl benzene, toluene, xylene,
Casonic	MTBE
Diesel Fuel	Petroleum distillate, oil & grease, naphthalene,
	xylenes
Kerosene	Coal oil, petroleum distillates
Propane	n-butyl acetate
Audi Consente and aud	Ethylene glycol, propylene glycol, heavy
Antifreeze/coolant	metals (copper, lead, zinc)
Formaldehyde Bonded Panel	Resin solids, free formaldehyde, chromium,
Formaldenyde Bonded Faner	arsenic, copper

NON-STORM WATER DISCHARGES:

The following is a list of non-storm water discharges allowed by the Environmental Protection Agency and the Iowa Department of Natural Resources and may occur at the job site under the condition that no pollutants will be allowed to come into contact with the water prior to or after its discharged from the site:

- 1. Water from fire fighting activities and fire hydrant flushings excluding the presence of dry residual chlorine
- 2. Water used to wash vehicles when detergents are not used
- 3. Potable water sources including waterline flushings, irrigation drainage and routine building wash downs excluding detergents
- 4. Uncontaminated air conditioning condensate
- 5. Uncontaminated springs or ground water
- 6. Foundation or footing drains where flows have not been exposed to solvents
- 7. Pavement wash waters where spills or leaks of hazardous material has not occurred and no detergents are present
- 8. Water used to control dust
- 9. Uncontaminated excavation dewatering



IOWA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION NOTICE OF INTENT FOR NPDES COVERAGE UNDER **GENERAL PERMIT**

CASHI	ER'S	USE	ONLY
0253-54	42-SW	/08-0	581

Name

No. 1 FOR "STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY"

No. 2 FOR "STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION **ACTIVITIES"**

No. 3 FOR "STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR ASPHALT DI ANTS

CONCRETE BATCH PLANTS, RO	CK CRUSHING F	LANTS, AN	ID CONSTRUC	TION SA	ND AND GR	RAVEL FACILITIES."
PERMIT INFORMATION						
Has this storm water discharge bee	n previously perm	nitted? 🔲 Ye	s 🗌 No			
if yes, please list authorization num	iber		91			
Under what General Permit are you	applying for cove	rage?	_			
General Permit No. 1 Ger	neral Permit No. 2	⊠ G	eneral Permit N	o. 3 🗌		
PERMIT FEE OPTIONS					_	
For coverage under the NPDES Ge	eneral Permit the f	oliowing fee	s appiy:			
☐ Annual Permit Fee \$175 (per ye ☑ 3-year Permit Fee \$350 Maximi ☐ 4-year Permit Fee \$525 Maximi ☐ 5-year Permit Fee \$700 Maximi	um coverage is the um coverage is for	ree years. ur years.	e year.			
Checks should be made payable to	: Iowa Departmen	t of Natural	Resources.			
FACILITY OR PROJECT INFORMA Enter the name and full address/loc		address) of	the facility or pr	oject for	which permit	t coverage is requested.
NAME: Alice Patricia Homes		S	TREET ADDRES	SS OF SI	TE:	
CITY:	COUNTY:	[44	est of Alice's Ro	STATE:		ZIP CODE:
Waukee	Dalias			IA		50263
CONTACT INFORMATION Give name, mailing address and telephone number of a contact person (Attach additional information on separate pages as needed). This will be the address to which all correspondence will be sent and to which all questions regarding your application and compliance with the permit will be directed.						
NAME: Jerry's Homes - Chip Classon			ADDRESS		. 0.4-0	
CITY:		STATE:	ZIP CODE:	TOTK AV	e, Suite C TELEPHON	NE
Urbandale		A	50322		(515) 727-	
Check the appropriate box to indica	ite the legal status	of the open	ator of the facilit		12.00/12/20	
☐ Federal ☐ State ☐ Public ☑ P	☐ Federal ☐ State ☐ Public ☑ Private ☐ Other (specify)					
	\$	SIC CODE (General Permit	No. 1 & 3	Applicants	Only)

SIC code refers to Standard Industrial Classification code number used to classify establishments by type of economic activity.

FACILITY LOCATION OR LOCATION OF CONSTRUCTION SITE

Give the location by 1/4 section, section, township, range, (e.g., NW, 7, T78N, R3W).

1/4 SECTION	SECTION	TOWNSHIP	RANGE
NE	27	79	26

MAIL TO:

STORM WATER COORDINATOR
IOWA DEPARTMENT OF NATURAL
RESOURCES
502 E 9TH ST
DES MOINES IA 50319-0034

					DES MOINES IA	50319	0034
OWNER INFORMAT		ar of the faullity					
NAME:	fuil address of the own	ier of the facility.		DRESS:	<u> </u>		
Sliver Oak Inc				430 New York A	ve Suite C		
CITY:		STATE:		CODE:	TELEPHONE:		
Urbandale		IA	503		(515) 727-0356		
OUTFALL INFORM	ATION						
Discharge start date	, i.e., when did/will the	site begin operatio	on or 10/1/9:	2. whichever is I	later: March 2016		
					tants in storm water disc	charges	?
				•			es 🛛 No
NOTE: Do not attact	n any storm water mon	itoring information	with the app	plication.			
Receiving water(s) to	the first uniquely nan	ned waterway in lo	wa (e.g., roa	ad ditch to unna	med tributary to Mud C	reek to	South
Skunk River):			_		,		
Storm sewer, overlar	nd flowage, unnamed o	ditches and tributar	ries to Walkı	nut Creek			
O IARK TI							
Has the Storm Water	e Following Conditions r Pollution Prevention I	i: Dian been develon	and animate the	h	bla Blatter of Indone	Yes	No
and does the plan m	eet the requirements o	of the annicable G	eu prior to ti eneral Perm	ne submittal of t sit? (do not subn	Inis Notice of Intent		
the application)	cot allo roquiromanto c	i ilio applicable Oi	CIRCIAI I GIII	וונד (שט ווטנ פטטוו	IIIL GIO SVAFFF WIGH	\boxtimes	
,							
Will the Storm Water	Pollution Prevention F	lan comply with a	pproved Sta	ite (Section 161	A.64, Code of Iowa) or		
local sediment and e	prosion plans? (for Gen	ierai Permit 2 oniy))			\boxtimes	
Has a public potice t	soon published for at k	and one dow in the		a with the lease	A alas della a la Alas		
Has a public notice been published for at least one day, in the newspaper with the largest circulation in the area where the discharge is located, and is the proof of notice attached? (new applications only)					\boxtimes		
4.04 11.010 210 2100	iargo io iosatos, aria io	rate proof of floate	o attacinos:	(now application	110 Offig)		
GENERAL PERMIT	NO. 2 AND GENERA	L PERMIT NO. 3 A	APPLICANT	S COMPLETE	THIS SECTION.		
Description of Project	ct (describe In one seni	tence what is being					
Construction of a res	sidential apartment con	nplex	-				
Eas Conomi Domeit I		ha annual Abla	-0 DV	- - N-			
For General Permit	No. 3 - is this facility to	be moved this yea	arr 🔲 Yes	S 🔲 NO			
Number of Acres of		rox. 22.42 Acres					
(Construction Activities Only) Estimated Timetable For Activities / Projects, i.e., approximately when did/will the project begin and end:							
March 2016 - Decen		s, i.e., approximate	ely when dic	1/will the project	begin and end:		
Maich 2010 - Decen	10ef 2016						
CERTIFICATION -	ALL APPLICATIONS I	AUST BE SIGNED)	, , <u> </u>			
Only the following	individuals may sign	the certification:	owner of sit	te, principal exe	cutive officer of at least	the leve	el of vice-
president of the company owning the site, a general partner of the company owning the site, principal executive officer or					or		
ranking elected official of the public entity owning the site, any of the above of the general contracting company for construction					struction		
sites.	the of love that this doe		and mades	man eliza eti man en	supervision in accorda		41
system designed to	accure that qualified	neonle property o	neu unuer i aathomd an	iny direction or	supervision in accorda	ance wi	in a
system designed to assure that qualified people properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the							
information, this information is to the best of my knowledge and belief, true, accurate, and complete. I further certify that							
the terms and conditions of the general permit will be met. I am aware that there are significant penalties for submitting							
false information, including the possibility of fine and imprisonment for knowing violations.							
NAME: (print or type) TITLE AND COMPANY NAME OF SIGNATORY:							
CHIP CLA	550)		Diescrus	of Land De	WELLHARMS - JERE	ms H	MLS
SIGNATURE:	2- 1			DATE:	WILLIAM - JEE	,	
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AFFIDAVIT OF PUBLICATION

State of Iowa

County of Polk, ss.:

The undersigned, being first duly sworn on oath, states that The Des Moines Register and Tribune Company, a corporation duly organized and existing under the laws of the State of Iowa, with its principal place of business in Des Moines, Iowa, the publisher of

THE DES MOINES REGISTER

newspaper of general circulation printed and published in the City of Des Moines, Polk County, Iowa, and that an advertisement, a printed copy of which is attached as Exhibit "A" and made part of this affidavit, was printed and published in The Des Moines Register on the following dates:

Ad No.	Start Date:	Run Dates:	Cost:
0000693529	09/02/15	09/02/15	\$26.14

Copy of Advertisement Exhibit "A"

Subscribed and sworn to before me by said affiant this

3th day of September, 2015

VP/Register Weekly Newspapers

Notary Public in and for Polk County, Iowa



PUBLIC NOTICE OF STORM
WATER DISCHARGE
Silver Oak Inc. plans to submit a
Notice of Intent to the lowa
Department of Natural
Resources to be covered under
the NPDES General Permit No.
2 "Storm Water Discharge
Associated with Industrial
Activity for Construction Associated with Industrial Activity for Construction Activities." The storm water discharge will be from the construction of a multi-family residential project located in NE 1/4, Section 27, Township 79N, Range 26W, Dallas County, Iowa. Storm water will be discharged from 4 point sources and will be discharged to the following stream: Walnut Creek via unnamed ditches, storm sewer, and tributaries. Comments may be submitted to the Storm Water Discharge Coordinator, Iowa Department of Natural Resources, Coordinator, lowa Department of Natural Resources, Environmental Protection Division, 502 E. 9th Street, Des Moines, IA 50319-0034. The public may review the Notice of Intent from 8 a.m. to 4:30 p.m., Monday through Friday, at the above address after it has been received by the department.



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR KIM REYNOLDS, LT. GOVERNOR DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

DEPARTMENT OF NATURAL RESOURCES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) NOTICE OF GENERAL PERMIT COVERAGE UNDER GENERAL PERMIT NO. 2

STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY

This notice of general permit coverage for a storm water discharge associated with construction activity is issued pursuant to the authority of section 402 (b) of the Clean Water Act (U.S.C. 1342(b)), Iowa Code 455B.174, and subrule 567--64.4(2), Iowa Administrative Code. A Notice of Intent has been filed with the Iowa Department of Natural Resources that this storm water discharge complies with the terms and conditions of NPDES General Permit No. 2. Authorization is hereby issued to discharge storm water associated with industrial activity as defined in Part VIII of the Iowa Department of Natural Resources NPDES General Permit No. 2 in accordance with the terms and conditions set forth in the permit.

Owner: SILVER OAK, INC.

10430 NEW YORK AVE., SUITE C

URBANDALE IA 50322

(515)727-0356

Permit Coverage Issued To:

ALICE PATRICIA HOMES, RESIDENTIAL APARTMENT COMPLEX - CONSTRUCTION
SITE IS LOCATED WEST OF THE INTERSECTION OF ALICE'S RD. AND 284TH LN.

in WAUKEE, DALLAS COUNTY

located at

1/4 Section	Section	Township	Range
NE	27	79N	26W

Coverage Provided Through: 3/28/2019

NPDES Permit Discharge Authorization Number: 28485 - 28228

Discharge Authorization Date: 3/28/2016

Project Description: CONSTRUCTION OF A RESIDENTIAL APARTMENT

COMPLEX 22.42 ACRES

IOWA DEPARTMENT OF NATURAL RESOURCES

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL PERMIT NO. 2

EFFECTIVE DATES OCTOBER 1, 2012 THROUGH OCTOBER 1, 2017

FOR

STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES

NPDES GENERAL PERMIT NO. 2 <u>TABLE OF CONTENTS</u>

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PART I. COVERAGE UNDER THIS PERMIT

A. <u>PERMIT AREA</u> This permit covers all areas of the State of Iowa.

B. **ELIGIBILITY**

- Except for discharges identified under 1. Parts I.B.2. and I.B.3., this permit may authorize the discharge of storm water associated with industrial activity from construction sites, (those sites or common plans of development or sale that will result in the disturbance of one or more acres total land area), (hereafter referred to as storm water discharge associated with industrial activity for construction activities) occurring after the effective date of this permit (including discharges occurring after the effective date of this permit where the construction activity was initiated before the effective date of this permit), including storm water discharge associated with industrial activity from areas that are dedicated to producing earthen materials, such as soils, sand and gravel, for use at a single construction site.
 - B. This permit may authorize storm water discharge from a construction site that is mixed with storm water discharge associated with industrial activity from sources other than construction activities provided that the storm water discharge from the industrial (non-construction) source is in compliance with the terms of a NPDES general permit, other than this general permit, or individual permit authorizing such discharge. In addition, the storm water other than from construction, shall be in compliance with Part IV.D.6. of this permit.
- 2. <u>LIMITATIONS ON COVERAGE</u> The following storm water discharges associated with industrial activity for construction activities are <u>not</u> authorized by this permit:
 - A. storm water discharges that are mixed with sources of non-storm water other than discharges identified in Part III.A.2. of this permit;

B. storm water discharges associated with industrial activity for construction activities which are covered by an existing individual NPDES permit or which are issued a permit in accordance with Part I.C. of this permit.

Storm water discharges authorized by an existing individual NPDES permit will be eligible to apply for coverage under this general permit as the existing individual permit expires; and

- c. storm water discharges associated with industrial activity for construction activities that the Iowa Department of Natural Resources has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard.
- **p.** new or expanded "storm water discharge associated with industrial activity" that discharges to Outstanding Iowa Waters or to Outstanding National Resource Waters.
- 3. <u>EXCLUSIONS</u> The following "storm water discharges associated with industrial activity" from construction activities do not require a NPDES permit:

discharges from agricultural and silvicultural activities including storm water runoff from orchards, cultivated crops, pastures, range lands, and forest lands, but not discharges from concentrated animal feeding operations as defined in 40 CFR 122.23, concentrated aquatic production facilities as defined in 40 CFR 122.24, discharges to aquaculture projects as defined in 40 CFR 122.25, and discharges from silvicultural point sources as defined in 40 CFR 122.27.

C. REQUIRING AN INDIVIDUAL PERMIT

1. The Department may require any person authorized by this permit to apply for and obtain an individual NPDES permit. The Department may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief

statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit, coverage under this general permit shall automatically terminate. If an owner or operator fails to submit an individual NPDES permit application required by the Department under this paragraph, coverage of this general permit automatically is terminated at the end of the day specified for submittal of the individual NPDES application.

- 2. Any person authorized to discharge under this permit may apply for an individual NPDES permit. In such cases, the discharger shall submit the following in accordance with the requirements of subrule (567)--64.3(4) in the Iowa Administrative Code:
 - A. an individual application, using DNR Form 1 and EPA Form 2F, and,
 - **B.** all applicable fees identified in rule (567)--64.16 in the Iowa Administrative Code.
- 3. When an individual NPDES permit is issued to a discharger covered under this general permit, the applicability of this general permit to the individual NPDES permittee is automatically terminated on the effective date of the individual NPDES permit.

When an individual NPDES permit is denied to a discharger otherwise subject to this permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the date of such denial, unless otherwise specified by the Department.

D. <u>AUTHORIZATION</u>

A discharger must submit a Notice of Intent (NOI) in accordance with the requirements of Part II of this permit in order for storm water discharge associated with industrial activity for construction activities pursuant to Part I.B. of this permit to be authorized to discharge under this general permit.

PART II. NOTICE OF INTENT (NOI) REQUIREMENTS

A. <u>Deadlines for Filing a Notice of Intent</u>

For storm water discharge associated with industrial activity for construction activities where construction begins after October 1, 1992, construction activities shall not commence until an authorization has been issued for the project by the Department.

- B. FAILURE TO NOTIFY Dischargers who fail to notify the Department of their intent to be covered, and discharge pollutants to water of the United States within Iowa, without an NPDES permit, are in violation of the Clean Water Act and the Code of Iowa.
- C. CONTENTS OF THE NOTICE OF INTENT A complete Notice of Intent shall include the items described in Parts II.C.1., II.C.2., and II.C.3. of this permit.
- 1. A completed Notice of Intent (NOI) form, DNR Form 542-1415, signed in accordance with Part VI.G. of this permit. The information on the form shall include the following:
 - A. Name, address, and location of the construction site for which this notification is submitted. The location should be provided as the 1/4 section, township, range, and the county in which the storm water discharge is located.
 - **B.** The owner's name, address, telephone number, and status (federal, state, private, public or other entity).
 - c. The name, address and telephone number of any operator (contractor) that has been identified as having a role in the storm water pollution prevention plan for the site required under Part IV.D.7. of this permit. Contractors (operators) identified after the submittal of the completed Notice of Intent shall be identified in the pollution prevention plan.

- D. The type of discharge (new or existing as related to October 1, 1992); whether or not the discharge is to a municipal separate storm sewer system; the date the discharge is to commence; the permit status of the discharge; and, the name of the receiving waters.
- E. An indication if any existing quantitative data is available describing the concentration of pollutants in storm water discharges and a summary of available existing data. (Existing data should not be included as part of the NOI, it should retained as part of the Pollution Prevention Plan).
- **F.** A brief description of the project; an estimated timetable for major activities; and, an estimate of the number of acres of the site on which soil will be disturbed.
- G. A certification that compliance with G.(1). through G.(4). are met:
- G.(1). the pollution prevention plan has been developed before this Notice of Intent is submitted to the Department;
- G.(2). the pollution prevention plan will be implemented on October 1, 1992 for any existing storm water discharge associated with industrial activity for construction activities. For a storm water discharge associated with industrial activity for construction activities that commence after October 1, 1992, the pollution prevention plan shall be implemented with the start of construction activities;
- **G.(3).** this Notice of Intent will be included and incorporated into the pollution prevention plan and will be updated as required; and,
- **G.(4).** the storm water pollution prevention plan provides compliance with section 467A.64 of the Code of Iowa and local sediment and erosion plans and are consistent with the requirements of Part IV of this general permit.

- 2. <u>APPLICABLE FEES</u> The applicable fees specified in Iowa Administrative Code 567 -- 64.16(455B).
- 3. PUBLIC NOTIFICATION A demonstration that the public notice specified in Iowa Administrative Code 567--64.6(1)"c"(2) was published at least one day, in one newspaper with the largest circulation in the area in which the facility is located or the activity will occur.
- D. WHERE TO SUBMIT Facilities which discharge storm water associated with industrial activity for construction activities must submit items described in Parts II.C.1., 2., and 3. of this permit to the Department at the following address:

Storm Water Coordinator
Iowa Department of Natural Resources
502 E. 9th St.
Des Moines, IA 50319-0034

- E. RENOTIFICATION Prior to the expiration of an authorization issued under this general permit, the permittee is required to resubmit a Notice of Intent (no additional public notice is required) with the Department for coverage under the new general permit. If a new general permit has not been reissued prior to the expiration of the current permit, the provisions and coverage of the current permit are extended until replaced by the adoption of a new general permit.
- F. TRANSFER OF COVERAGE UNDER THIS **PERMIT** For storm water discharge associated with industrial activity for construction activities where the ownership changes, the Department must be notified of the title transfer within 30 days. Both the previous owner(s) and the new owner(s) are responsible for notifying the Department of the transfer and the new owner's name and contact information. This requirement shall be satisfied upon the Department's receipt of the notification of this information by either the previous owner(s) or the new owner(s). If a storm water discharge associated with industrial activity for construction activities is covered by this general permit, the new

owner(s) shall be subject to all terms and conditions of this general permit. A copy of the notice of transfer that was sent to the Department shall be included in the pollution prevention plan. For construction activity which is part of a larger common plan of development such as a housing or commercial development project, if a permittee transfers ownership of all or any part of property subject to this permit, both the permittee and transferee shall be responsible for compliance with the provisions of this permit for that portion of the project which has been transferred including when the transferred property is less than one acre in area. If the new owner(s) agree in writing to be solely responsible for compliance with the provisions of this permit for the property which has been transferred, then the existing permittee(s) shall be relieved of responsibility for compliance with this permit for the transferred property, from and after the date the Department receives written notice of transfer of responsibility. A copy of the notice of transfer of responsibility shall be included in the pollution prevention plan.

G. NOTICE OF DISCONTINUATION

- 1. Within 30 days after final stabilization at a construction site (as defined in Part VIII of this permit), the operator or owner of the facility shall submit a Notice of Discontinuation to the Department.
- 2. The Notice of Discontinuation shall include the following information:
 - A. the name of the owner/operator to which the permit was issued;
 - **B.** the general permit number and permit authorization number;
 - c. the date the construction site reached final stabilization; and,
 - **D.** the following certification signed in accordance with Part VI.G. of this permit:

"I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment

control measures have been removed or will be removed at an appropriate time. understand that by submitting this Notice of Discontinuation, that I am no longer discharge authorized to storm associated with industrial activity for construction activities by Iowa Department of Natural Resources General NPDES Permit No. 2. and that discharging pollutants from storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit."

PART III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, AND OTHER NON-NUMERIC LIMITATIONS

A. PROHIBITION ON NON-STORM WATER DISCHARGES

- 1. All discharges authorized by this permit shall be composed entirely of storm water except for non-storm discharges listed in Part III.A.2.
- 2. Discharges from fire fighting activities; fire hydrant flushings; waters used to wash accordance vehicles in with IV.D.2.c.(2).; potable water sources including waterline flushings; irrigation drainage; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate: springs: uncontaminated groundwater; and foundation or footing drains where flows are not contaminated with process materials such as solvents; may be authorized by this permit provided the nonstorm water component of the discharge is in compliance with Part IV.D.5. of this permit.
- B. RELEASES IN EXCESS OF REPORTABLE

 QUANTITIES Any owner or operator identified in the
 pollution prevention plan is subject to the spill
 notification requirements as specified in 455B.386
 of the Iowa Code. Iowa law requires that as soon as
 possible but not more than six hours after the onset of

a "hazardous condition" the Department and local sheriff's office or the office of the sheriff of the affected county be notified.

The storm water pollution prevention plan described in Part IV of this permit must be modified within 5 calendar days of knowledge of the release to provide a description of the release and the circumstances leading to the release and to identify and provide for the implementation of steps to prevent the reoccurrence of such releases and to respond to such releases.

PART IV. STORM WATER POLLUTION PREVENTION PLANS

A storm water pollution prevention plan shall be developed for each construction site covered by this permit. Storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of the storm water discharge from the construction activities. In addition, the plan shall describe and ensure the implementation of practices which will be used to reduce the pollutants in storm water discharge associated with industrial activity for construction activities at the construction site and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

A. <u>DEADLINES FOR POLLUTION PREVENTION</u> PLAN PREPARATION AND COMPLIANCE

- 1. POLLUTION PREVENTION PLAN
 PREPARATION DEADLINE The pollution
 prevention plan shall be completed prior to
 the submittal of an NOI to the Department to
 be covered under this permit and shall be
 updated as appropriate.
- 2. POLLUTION PREVENTION PLAN

 COMPLIANCE DEADLINE The pollution prevention plan shall provide for compliance with the terms and schedule of the plan prior to the initiation of construction activities.

B. SIGNATURE AND PLAN REVIEW

- The plan shall be signed in accordance with Part VI.G., and be retained at the construction site from the date construction activities begin to the date of final stabilization.
- 2. The permittee shall make plans available to the Department upon request, or in the case of a storm water discharge associated with industrial activity for construction activities which discharge through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system.
- 3. The Department may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. After such notification from the Department, the permittee shall make changes to the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise provided by the Department, the permittee shall have 3 business days after such notification to make the necessary changes.
- 4. All storm water pollution prevention plans received by the Department from the permittee are considered reports that shall be available to the public under Section 308(b) of the CWA and Chapter 22 of the Code of Iowa. However, the permittee may claim any portion of a storm water pollution plan as confidential in accordance with Chapter 22 of the Code of Iowa and Iowa Administrative Code (561)--2.5.
- C. KEEPING PLANS CURRENT The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not been addressed in the plan or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in Part IV.D.2. of this permit, or in otherwise achieving the general objectives of controlling pollutants in storm water discharge associated

with industrial activity for construction In addition, the pollution activities. prevention plan shall be updated to: expeditiously change the site map to include changes at the site, include contractors identified after the submittal of the Notice of Intent as Co-permittees, described in Part IV.D.7. of this permit; identify any change in ownership or transference of the permit and permit responsibilities; or, if required, by the occurrence of a hazardous condition (as defined in Part VIII of this permit). Amendments to the plan may be reviewed by the Department of Natural Resources in the same manner as Part IV.B.2.

- D. <u>CONTENTS OF THE POLLUTION PREVENTION</u>

 <u>PLAN.</u> The storm water pollution prevention plan shall include the following items:
- 1. <u>SITE DESCRIPTION</u> Each plan shall provide a description of the following:
 - A. a description of the nature of the construction activity;
 - **B.** estimates of the total area of the site and the area of the site that is expected to be disturbed by excavation, grading, or other activities;
 - c. an estimate of the runoff coefficient of the site after construction activities are completed and existing data describing the soil or the quality of any discharge from the site;
 - D. a site map indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, the location of structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water; and
 - E. the name of the receiving water(s) and the ultimate receiving water(s).

2. Each plan shall include a CONTROLS description of controls that implemented at the construction site. plan will clearly describe the intended sequence of major activities and for each activity, the appropriate control measures and the timing during the construction process that the measures will be implemented. (For example, perimeter controls for one portion of the site will be installed after the clearing and grubbing necessary for installation of the measure, but before the clearing and grubbing for the remaining portions of the site. Perimeter controls will be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Temporary perimeter controls will be removed after final stabilization). The description of controls shall address the following minimum components:

A. EROSION AND SEDIMENT CONTROLS

A.(1). STABILIZATION PRACTICES description of temporary and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed areas are Stabilization practices may stabilized. include: temporary seeding, permanent seeding, mulching, geotextiles, stabilization, vegetative buffer protection of trees, preservation of mature vegetation, and other appropriate measures. Except as precluded by snow cover, stabilization measures shall be initiated on all disturbed areas as soon as practical but in no case where construction activity will not occur for a period of 21 or more calendar days later than the 14th day after no construction activity has occurred on such area. Where the initiation of stabilization measures by the 14th day after no construction activity occurs is precluded by snow cover, then stabilization measures shall be initiated as soon as practicable thereafter.

A.(2). STRUCTURAL PRACTICES A description of structural practices to the degree attainable, to divert flows from

exposed soils, store flows or otherwise limit runoff from exposed areas of the site. Such practices may include silt fences, earth dikes, brush barriers, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA.

A.(2).(a).For common drainage locations that serve an area with more than 10 disturbed acres at one time, a temporary or permanent sediment basin providing 3,600 cubic feet of storage per acre drained shall be provided where attainable until final stabilization of the site has been achieved. The 3,600 cubic feet of storage area per acre drained does not apply to flows from offsite areas and flows from onsite areas that are either undisturbed or have undergone final stabilization where such flows are diverted around the sediment basin. For drainage locations which serve more than 10 disturbed acres at one time and where a temporary sediment basin providing 3,600 cubic feet of storage per acre drained is not attainable, sediment traps, silt fences, or equivalent sediment controls are required for all sideslope and downslope boundaries of the construction area.

A.(2).(b). For drainage locations serving 10 or fewer acres, sediment traps, silt fences or equivalent sediment controls are required for all sideslope and downslope boundaries of the construction area or a sediment basin providing for 3,600 cubic feet of storage per acre drained.

A.(2).(c). Unless infeasible, the following measures shall be implemented at all sites: utilize outlet structures that withdraw water from the surface when discharging from basins, provide and maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration and minimize soil compaction. Topsoil shall be

preserved at all construction sites unless land use precludes the practice. The requirement to preserve topsoil shall be met only when the depth of topsoil after soil disturbing activities have been completed and final stabilization achieved for the permitted activity is equal to, or greater than, 4.0 inches, including soil contained in sod, on all areas of the site where the surface of the ground disturbed for the permitted construction activities is exposed and not covered by concrete, asphalt, gravel or other such material and where 4.0 inches or more of topsoil existed prior to the commencement of soil disturbing activities that are permitted under the current permit authorization for the site. On areas where less than 4.0 inches of topsoil existed prior to the commencement of soil disturbing activities that are permitted under the current permit authorization for the site, the minimum depth of topsoil after soil disturbing activities have been completed and final stabilization achieved for the permitted activity shall be equal to, or greater than, the depth of topsoil that existed prior to the commencement of soil disturbing activities that are permitted under the current permit authorization for the site.

The final topsoil depth is to be measured after the soil has been compacted in a fashion generally considered adequate for an established lawn and so that the expected settling that will occur after measurement will be minimal and shall include the soil contained in any sod that has been placed on the site. The type of topsoil at the site after soil disturbing activities have been completed and final stabilization achieved for the permitted activity shall be similar to that which exists or existed in the general area of the site.

For construction activity which is part of a larger common plan of development, such as a housing or commercial development project, in which a new owner agrees in writing to be solely responsible for compliance with the provisions of this permit for the property which has been transferred or in which the new owner has obtained authorization under this permit for a lot or lots (as specified in subrule 567-64.6(6) of the Iowa Administrative Code), the topsoil preservation

requirements described above must be met no later than at the time the lot or lots have reached final stabilization as described in this permit.

For sites where less than 4.0 inches of topsoil is to be in place after soil disturbing activities have been completed and final stabilization achieved for the permitted activity, a soil survey conducted by properly qualified personnel who regularly conduct soil surveys as part of their normal job duties must be conducted prior to commencement of soil disturbing activities that are permitted under the current permit authorization for the site. The results of the soil survey shall become part of the Pollution Prevention Plan and shall indicate the depth of topsoil at a suitable number of points on the site commensurate with standard engineering practices established for the size of the site.

The topsoil preservation requirement described above shall be implemented for that have not received authorization under this permit prior to October 1, 2012. The topsoil preservation requirements are not required to be implemented for projects that have been authorized prior to October 1, 2012. residential and commercial developments, a plat is considered a project. For other large areas that have been authorized for multiple construction sites, including those to be started at a future date, such as those located at industrial facilities, military installations and universities, a new construction project not yet surveyed and platted out is considered a project. This stipulation is intended to be interpreted as requiring the topsoil preservation requirements on development plats and construction activities on other extended areas that may have several construction projects permitted under the same authorization to be implemented on those projects not yet surveyed and platted out prior to October 1, 2012 even if other plats and construction activities in the same development or other extended area were authorized prior to October 1, 2012.

B. STORM WATER MANAGEMENT A description of measures that will be installed during construction to control pollutants in

storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Permittees are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with industrial activity have been eliminated from the site.

- B.(1). Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; and infiltration of runoff onsite; and sequential systems (which combine several practices). A goal of 80 percent removal of total suspended solids from those flows which exceed predevelopment levels should be used in designing and installing storm management controls (where practicable). Where this goal is not met, the permittee shall provide justification for rejecting each practice based on site conditions.
- **B.(2).** Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions present prior to the initiation of construction activities).

C. OTHER CONTROLS

C.(1). Waste DISPOSAL All wastes composed of building materials must be removed from the site for disposal in permitted disposal facilities. No building material wastes or unused building materials

shall be buried, dumped, or discharged at the site.

- **C.(2).** Off-site vehicle tracking of sediments shall be minimized.
- C.(3). The plan shall ensure and demonstrate compliance with applicable State or local waste disposal, sanitary sewer or septic system regulations.
- APPROVED STATE OR LOCAL PLANS Facilities which discharge storm water industrial activity associated with construction activities must include in their storm water pollution prevention plan procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by State or local officials. Applicable requirements specified in sediment and erosion plans, site permits or storm water management plans approved by State or local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in a storm water pollution prevention plan required under this permit.

Operators of facilities seeking alternative permit requirements shall submit an individual permit application in accordance with Part I.C.2. of this permit along with a description of why requirements in approved State or local plans should not be applicable as a condition of an NPDES permit.

- 3. MAINTENANCE A description of procedures to maintain in good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in the site plan.
- 4. <u>INSPECTIONS</u> Qualified personnel (provided by the discharger) shall inspect disturbed areas of the construction site that have not been stabilized with a perennial, vegetative cover of sufficient density to preclude erosion at least once every seven calendar days. Unless erosion is evident or other conditions

warrant them, regular inspections are not required on areas that have been stabilized with a perennial, vegetative cover of sufficient density to preclude erosion.

- Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the Erosion and sediment drainage system. control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- B. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph IV.D.1. of this permit and pollution prevention measures identified in the plan in accordance with paragraph IV.D.2. of this permit shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for implementation of any changes to the plan within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph IV.D.4.B. of the permit shall be made and retained as part of the storm water pollution prevention plan for at least three years after final stabilization has achieved and a Notice Discontinuation has been submitted to the Department. The report shall be signed in accordance with Part VI.G. of this permit.
- 5. Non-Storm Water Discharges Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2. of this permit that are combined with storm

water discharges associated with industrial activity from construction activities must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

- MATER DISCHARGE FROM INDUSTRIAL
 ACTIVITIES OTHER THAN CONSTRUCTION,
 INCLUDING DEDICATED ASPHALT PLANTS,
 AND DEDICATED CEMENT PLANTS This
 permit may only authorize a storm water
 discharge associated with industrial activity
 from a construction site that is mixed with a
 storm water discharge from an industrial
 source other than construction, where:
 - A. the industrial source other than construction is located on the same site as the construction activity;
 - **B.** storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and,
 - c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants and dedicated cement plants) are in compliance with the terms and conditions, including applicable NOI or application requirements, of a different NPDES general permit or individual permit authorizing such discharges.

7. CONTRACTORS

A. The storm water pollution prevention plan must clearly identify for each measure in the plan, the contractor(s) and/or subcontractor(s) that will implement the measure. All contractors and subcontractors identified in the plan must sign a copy of the certification statement in Part IV.D.7.B. of this permit in accordance with Part VI.G. of this permit. Upon signing the certification, the contractor or sub-contractor is a co-permittee with the

owner and other co-permittee contractors. All certifications must be included in the storm water pollution prevention plan.

B. <u>CERTIFICATION</u> <u>STATEMENT</u> All contractors and subcontractors identified in a storm water pollution prevention plan in accordance with Part IV.D.7.A. of this permit shall sign a copy of the following certification statement before conducting any professional service at the site identified in the storm water pollution prevention plan:

"I certify under penalty of law that I understand the terms and conditions of the Pollutant general National Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors subcontractors signing such certifications, to the Iowa Department of Natural Resources NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit."

The certification must include the name and title of the person providing the signature; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

PART V. RETENTION OF RECORDS

A. The permittee shall retain copies of storm water pollution prevention plans and all reports required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at

least three years from the date that the site is finally stabilized and a Notice of Discontinuation has been submitted to the Department.

- B. If there is a construction trailer, shed or other covered structure located on the property the permittee shall retain a copy of the storm water pollution prevention plan required by this permit at the construction site from the date of project initiation to the date of final stabilization. If there is no construction trailer, shed or other covered structure located on the property, the permittee shall retain a copy of the plan at a readily available alternative site approved by the Department and provide it for inspection upon request. If the plan is maintained at an off-site location such as a corporate office, it shall be provided for inspection no later than three hours after being requested.
- C. <u>ADDRESSES</u> All written correspondence to the Department should be sent to the following address:

Storm Water Coordinator
Iowa Department of Natural Resources
502 E. 9th St.
Des Moines, IA 50319-0034

PART VI. STANDARD PERMIT CONDITIONS

A. <u>DUTY TO COMPLY</u>

- 1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Code of Iowa and the Clean Water Act and is grounds for enforcement action; for termination of coverage under this general permit; or, for denial of a request for coverage under a reissued general permit.
- 2. TOXIC POLLUTANTS The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act (CWA) for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even

- if this permit has not yet been modified to incorporate the requirement.
- B. CONTINUATION OF THE EXPIRED GENERAL PERMIT This permit expires on October 1, 2017. An expired general permit continues in force until replaced by adoption of a new general permit.
- C. NEED TO HALT OR REDUCE ACTIVITY NOT A

 DEFENSE It shall not be a defense for a
 permittee in an enforcement action that it
 would have been necessary to halt or reduce
 the permitted activity in order to maintain
 compliance with the conditions of this permit.
- D. DUTY TO MITIGATE The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- E. <u>DUTY TO PROVIDE INFORMATION</u> The permittee shall furnish to the Department, within three hours, any information which the Department may request to determine compliance with this permit. The permittee shall also furnish to the Department upon request copies of records required to be kept by this permit.
- F. OTHER INFORMATION When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Department, he or she shall promptly submit such facts or information.
- G. <u>SIGNATORY REQUIREMENTS</u> All Notices of Intent, storm water pollution prevention plans, reports, certifications or information either submitted to the Department or the operator of a municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed in accordance with rule 567--64.3(8) of the Iowa Administrative Code as follows:

64.3(8) Identity of signatories of operation permit applications. The person who signs

the application for an operation permit shall be:

- **a.** Corporations. In the case of corporations, a principal executive officer of at least the level of vice-president.
- **b.** *Partnerships*. In the case off a partnership, a general partner.
- **c.** Sole proprietorships. In the case of a sole proprietorship, the proprietor.
- **d.** Public facilities. In the case of a municipal, state, or other public facility, by either the principal executive officer, or the ranking elected official.
- e. Storm water discharge associated with industrial activity from construction activity. In the case of a storm water discharge associated with industrial activity from construction as identified in 40 CFR 122.26(b)(14)(x), either the owner of the site or the general contractor.

The person who signs NPDES reports shall be the same, except that in the case of a corporation or a public body, monitoring reports required under the terms of the permit may be submitted by the person who is responsible for the overall operation of the facility from which the discharge originated.

H. <u>CERTIFICATION</u> Any person signing documents under paragraph VI.G. shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are

- significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- I. OIL AND HAZARDOUS SUBSTANCE LIABILITY
 Nothing in this permit shall be construed to
 preclude the institution of any legal action or
 relieve the permittee from any responsibilities,
 liabilities, or penalties to which the permittee
 is or may be subject under section 311 of the
 Clean Water Act.
- J. PROPERTY RIGHTS The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- K. <u>SEVERABILITY</u> The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
- L. <u>TRANSFERS</u> This permit is not transferable to any person except after notice to the Department. The Department may require the discharger to apply for and obtain an individual NPDES permit as stated in Part I.C.
- M. PROPER OPERATION AND MAINTENANCE The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of storm water pollution prevention plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance Proper operation procedures. maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions or this permit.

- N. INSPECTION AND ENTRY
 allow the Department or an authorized representative of EPA, the State, or, in the case of a facility which discharges through a municipal separate storm sewer, an authorized representative of the municipal operator or the separate storm sewer receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:
 - l. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
 - 2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and,
 - 3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment).
- O. <u>PERMIT ACTIONS</u> Coverage under this permit may be terminated for cause. The filing of a request by the permittee for a permit discontinuance, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- P. <u>Environmental Laws</u> No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

PART VII. REOPENER CLAUSE

If there is evidence indicating potential or realized impacts or water quality due to any storm water discharge associated with industrial activity for construction activities covered by this permit, the owner or operator of such discharge may be required to obtain individual permit in accordance with Part I.C of this permit.

PART VIII. DEFINITIONS

"Best Management Practices" ("BMPs") means schedules of activities, prohibitions of

practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Construction site" means a site or common plan of development or sale on which construction activity, including clearing, grading and excavating, results in soil disturbance. A construction site is considered one site if all areas of the site are contiguous with one another and one entity owns all areas of the site.

"CWA" or "Clean Water Act" means the Federal Water Pollution Control Act.

"Dedicated portable asphalt plant" means a portable asphalt plant that is located on or contiguous to a construction site and that provides asphalt only to the construction site that the plant is located on or adjacent to.

"Dedicated portable concrete plant" means a portable concrete plant that is located on or contiguous to a construction site and that provides concrete only to the construction site that the plant is located on or adjacent to.

"Dedicated sand or gravel operation" means an operation that produces sand and/or gravel for a single construction project.

"Department" means the Iowa Department of Natural Resources.

"Final Stabilization" means that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 70% for the area has been established or equivalent stabilization measures have been employed or which has been returned to agricultural production.

"Hazardous condition" means any situation involving the actual, imminent, or probable spillage, leakage, or release of a hazardous substance on to the land, into a water of the state, or into the atmosphere, which creates an immediate or potential danger to the

public health or safety or to the environment. 455B.381(2) 1991, Code of Iowa

"Hazardous substance" means any substance or mixture of substances that presents a danger to the public health or safety and includes, but is not limited to, a substance that is toxic, corrosive, or flammable, or that is an irritant or that, in confinement. generates pressure through decomposition, heat, or other means. The following are examples of substances which, in sufficient quantity may be hazardous: acids; alkalis; explosives; fertilizers; heavy metals such as chromium, arsenic, mercury, lead and cadmium; chemicals; paint thinners; industrial pesticides; petroleum products; poisons, radioactive solvents. materials: sludges; and organic "Hazardous substances" may include any hazardous waste identified or listed by the administrator of the United State Environmental Protection Agency under the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976, or any toxic pollutant listed under section 307 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous substance designated under section 311 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous material designated by the secretary of transportation under the Hazardous Materials Transportation Act (49 CFR 172.101). 455B.381(1), 1991 Code of Iowa

"Municipality" means a city, town, borough, county, parish, district, association, or other public body created by or under State law.

"NOI" means Notice of Intent to be covered by this permit (see Part II of this permit.)

"Outstanding Iowa Waters" means those waters which constitute an outstanding state resource such as waters of exceptional recreational or ecological significance. These waters are identified in Appendix B of the Iowa Antidegradation Implementation Procedure manual.

"Outstanding National Resource Waters" means those waters which constitute an outstanding national resource such as waters of national and state parks and wildlife refuges and also waters of exceptional recreational or ecological significance. These waters are identified in Appendix B of the

Iowa Antidegradation Implementation Procedure manual.

"Permittee" means the owner of the facility or site.

"Qualified personnel" means those individuals capable enough and knowledgeable enough to perform the required functions adequately well to ensure compliance with the relevant permit conditions and requirements of the Iowa Administrative Code.

"Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

"Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

"Storm water discharge associated with industrial activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under 40 CFR part 122. For the categories of industries identified in paragraphs (i) through (x) of this definition, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR part 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water.

For the categories of industries identified in paragraph (xi) of this definition, the term includes only storm water discharges from all the areas (except access roads and rail lines) that are listed in the previous sentence where material handling

equipment or activities, raw materials, intermediate products, final products, waste materials, byproducts, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product, or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described Industrial facilities (including industrial facilities that are Federally, State, or municipally owned or operated that meet the description of the facilities listed in these paragraphs (i)-(xi) of the definition) include those facilities designated under 40 CFR 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity" for purposes of this definition;

- (i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this definition);
- (ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285), 29, 311, 32 (except 323), 33, 3441, 373;
- Facilities classified as Standard (iii). Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations no longer meeting the definition of a reclamation area under 40 CFR 434.11(1) because the performance bond issued to the facility by the appropriate SMCRA authority has been released, or except for areas of non-coal mining operations which have been released from applicable State or Federal reclamation requirements after December 17, 1990) and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; (inactive mining

operations are mining sites that are not being actively mined, but which have an identifiable owner/operator; inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined materials, nor sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim);

- (iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA:
- (v) Landfills, land application sites, and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;
- (vi) facilities involved in the recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as Standard Industrial Classification 5015 and 5093;
- (vii) Steam electric power generating facilities, including coal handling sites;
- (viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42 (except 4221-4225), 43, 44, 45 and 5171 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle (including vehicle rehabilitation, maintenance fueling, mechanical repairs, painting, lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under paragraphs (i)-(vii) or (ix)-(xi) of this definition are associated with industrial activity;
- (ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not

included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with 40 CFR 503;

- (x) Construction activity including clearing, grading and excavation activities except: operations that result in the disturbance of less than one acre of total land area which are not part of a larger common plan of development or sale;
- (xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 323, 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-4225, (and which are not otherwise included within categories (ii)-(x));

"Storm water discharge associated with industrial activity for construction activities" means activities that fall under subparagraph (x) in the definition of storm water discharge associated with industrial activity.

"Topsoil" means the fertile, uppermost part of the soil containing significant organic matter largely devoid of debris and rocks and often disturbed in cultivation.

"Uncontaminated groundwater" means water that is potable for humans, meets the narrative water quality standards in subrule 567-61.3(2) of the Iowa Administrative Code, contains no more than half the listed concentration of any pollutants in subrule 567-61.3(3) of the IAC, has a pH of 6.5-9.0 and is located in soil or rock strata.

FINAL STABILIZATION AND NOTICE OF DISCONTINUATION

- A. The storm water discharge from a construction activity is no longer considered to be a discharge subject to the storm water permit requirements when final stabilization has been reached and temporary erosion and sediment controls have been or will be removed. A permittee must submit a Notice of Discontinuation (NOD) to inform the Iowa Department of Natural Resources (IDNR) that storm water discharge no longer needs to be covered by the general permit.
- B. Final stabilization is defined in the general permit as meaning that all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover for unpaved areas not covered by permanent structures has been established or equivalent permanent stabilization measures have been employed.
- C. The original SWPPP and all regulatory correspondence shall be retained by the Owner for a period of three (3) years after the completion of final stabilization of the site and the NOD.
- D. The Notice of Discontinuation should be filled out by the Owner and mailed to the following address:

Storm Water Coordinator Iowa Department of Natural Resources 502 E. 9th Street Des Moines, Iowa 50319-0034

NOTICE OF DISCONTINUATION

OF A STORM WATER DISCHARGE COVERED UNDER IOWA NPDES GENERAL PERMIT NO. 2 FOR CONSTRUCTION ACTIVITIES

Name of the owner or facility to which the storm water discharge general permit coverage was issued.				
			Alice P	atricia Homes
	Со	unty:	Dallas	
List the complete permit authorization sheet.	on number for the discharge.	This n	number is pro	vided on the bottom of the
	IA	· -	28485	
List the date the construction site re	eached final stabilization as de	fined o	on the back of	f this form.
The following certification must be back side).	signed in accordance with th	e signa	atory requirer	ments of the general permit (see
I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time. I understand that by submitting this Notice of Discontinuation, I am no longer authorized to discharge storm water associated with industrial activity for construction activities by Iowa Department of Natural Resources NPDES General Permit No. 2 and that discharging pollutants from storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by an NPDES permit.				
I further certify under penalty of last supervision in accordance with a systhe information submitted. Based directly responsible for gathering belief, true, accurate, and complete including the possibility of fine and	vistem designed to assure that of on my inquiry of the person of the information, the informati I am aware that there are sign	ualific perso on sub gnifica	ed personnel points who mana omitted is, to ant penalties f	properly gathered and evaluated age the system, or those persons the best of my knowledge and
	Name (print)	1 3 No. 2 No. 2 No. 20		Title
	Signature			Date
Return to:	Storm Water Coordinator Department of Natural Res 502 E. 9th Street Des Moines, IA 50319-003		s	

542-8115 (over)

Final Stabilization means that all soil disturbing activities at the site have been completed and that a uniform perennial vegetative cover for the area has been established or equivalent stabilization measures have been employed. All building must be completed before the project is considered finally stabilized.

- SIGNATORY REQUIREMENTS All Notices of Intent, storm water pollution prevention plans, reports, certifications or information either submitted to the Department or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed in accordance with rule 567--64.3(8) of the Iowa Administrative Code as follows:
- 64.3(8) *Identity of signatories of operation permit applications*. The person who signs the application for an operation permit shall be:
- a. *Corporations*. In the case of corporations, a principal executive officer of at least the level of vice-president.
- b. Partnerships. In the case of a partnership, a general partner.
- c. Sole proprietorships. In the case of a sole proprietorship, the proprietor.
- d. Public facilities. In the case of a municipal, state, or other public facility, by either the principal executive officer, or the ranking elected official.
- e. Storm water discharge associated with construction activity. In the case of a storm water discharge associated with industrial activity from construction as identified in 40 CFR 122.26(b)(14)(x), either the owner of the site or the general contractor.



805 University Avenue Waukee, IA 50263 Phone: (515) 987-4363 Fax: (515) 987-3979

COSESCO PERMIT APPLICATION

EMAIL APPLICATION

PRINT APPLICATION

JOB ADDRESS: West of Alice's Road & 284th Lane				
LEGAL DESCRIPTION: Sec Attached				
NPDES General Permit No. 2 coverage for this site is listed under	the NPDES Permit Discharge Authorization Number:			
APPLICANT NAME: Silver Oak Inc Contact: Chip Classon				
(Party responsible for SWPPP & State NPD	ES General Permit No. 2)			
APPLICANT'S MAILING ADDRESS				
STREET: 10430 New York Avenue, Suite C	CITY, STATE: Urbandale, Iowa			
ZIP CODE: 50322	E-MAIL ADDRESS: ChipC@jerryshomes.com			
PHONE NUMBER: (515) 727-0356				
BUILDING PERMIT#:	(Development Services Department will Issue)			

After reading the CONSTRUCTION SITE EROSION & SEDIMENT CONTROL ORDINANCE (COSESCO) It is understood that the above party is responsible for maintaining best management practices (BMP) control measures and a Storm Water Pollution Prevention Plan (SWPPP) applicable to the site. A construction site entrance that prevents off site tracking is required and all waste that may adversely impact water quality will be managed in compliance with all applicable state or federal permit requirements. The fee charged for this permit includes the charge for the first site visit. If construction lasts longer than three (3) months, or upon receipt of a valid complaint another fee will be charged for each additional site visit required and will be billed.

ACKNOWLEDGEMENT

I, THE UNDERSIGNED, DECLARE THAT, TO THE BEST OF MY KNOWLEDGE, ALL OF THE INFORMATION GIVEN IN THIS APPLICATION IS TRUE AND CORRECT, AND FURTHER AGREE THAT ALL WORK DONE UNDER THIS PERMIT WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE CITY CODES, ORDINANCES, RULES AND REGULATIONS. I ALSO CERTIFY THAT I HAVE READ AND RECEIVED A COPY OF THE COSESCO ORDINANCE.

Signature of Applicant: Carin Class J	Date of Application: 3 - 10 - 2016	<u> </u>
CHIP CLASSON		
Director of Land.	DEVELOPMENT - JERRYS HAMES	



805 University Avenue Waukee, IA 50263 Phone: (515) 987-4363

Fax: (515) 987-3979

CONSTRUCTION SITE SWPPP REVIEW CHECKLIST

DATE	(mm/dd/	/yy):		*Builders utilizing another entity's	
PROJE	PROJECT ADDRESS:			SWPPP should still fill out all of the information in this top section, but are	
LOT#	& PLAT N	AME:	no	not required to complete the "Required	
ENGIN	ENGINEER/DESIGNER FOR PROJECT: Documents & Notification" section*				
			DESIGNER: DATE:		
		ZATION #:			
IDIN		ZATION #	T-0.		
REC	QUIRI	ED DO	OCUMENTS & NOTIFICATION		
Inclu	ded Rev	/iew			
YES	NO	N/A			
			Notice of Intent		
			Owner's Contact Information		
			Contact Information for the Actual Construction Site		
			Contact information for Co-Permittees (operators or contracto	ors)	
			Owner Certification and Signature		
			a. SWPPP prepared prior to submittal of NOI		
			b. SWPPP will be implemented when construction con	nmences	
			c. NOI will be incorporated into SWPPP		
			d. SWPPP in compliance with IDNR GP #2		
			Public Notice Requirements Met		
			IDNR Letter of Authorization		
			Stormwater Pollution Prevention Plan (Not required for submittal to IDNR)		
			Transfer of Responsibility (If submitting a Transfer Application	n)	
			a. Master SWPPP		
			b. Transferee SWPPP		
		П	Date that Discharge will Commence:		



805 University Avenue Waukee, IA 50263 Phone: (515) 987-4363

Fax: (515) 987-4363

SWPPP CONTENTS

	ed Revie		
YES	NO	N/A	1. General Information
			Option A. Contract documents require contractor, before commencing work, to identify the contractor or subcontractor that will implement measures.
			Option B. Certification Statement by contractor and all sub-contractors that could potentially be involved in activities resulting in stormwater pollution. Plan identifies for each measure in the plan the contractor(s) and/or subcontractor(s) that will implement measures.
			Contract documents provide information on inspection reports that summarize scope of inspection, names(s) and qualifications of personnel making inspection, date(s) of inspection, major observations relating to plan and actions taken.
		To the same of	Contractor indicates that a copy of the SWPPP will be kept onsite, if not list location.
			*Contractor identifies a SWPPP manager for the job.
			2. Site Description
			a. *Legal description (¼,¼, Section, T and R) and/or address
			b. Nature of Activity-description
			c. Estimate total area of site (acres)
			d. Estimate total disturbed area of site (acres)
			e. Runoff coefficient of site after construction completed
			f. Existing soils data (County soil survey series and texture and ther pertinent data)
			g. Receiving water(s) and ultimate receiving water(s)
			h. Existence of quantitative storm water discharge data
			3. Site Map
			b. Approximate slopes after major grading activities
			c. Areas of soil disturbance
			d. Locations of major structural and nonstructural controls in plan
			e. Location of areas where stabilization practices are expected to occur
			f. Surface waters including wetlands
			g. Locations where stormwater is discharged to surface water
			h. *Equipment and materials storage areas



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Includ YES	led Revi NO	ew N/A	
			4. Controls
			Description of appropriate controls that will be implemented
			Description of intended sequence of major activities
			1. *Intended sequence of major activities and each activity based on the following considerations:
			Install upstream diversions, downslope and sideslope perimeter controls before commencing land disturbing
			activities
			2. Do not disturb an area until it is necessary for construction to proceed
			3. Cover or stabilize disturbed areas as soon as possible
			4. Time construction activities to limit impact on seasonal weather changes
			5. If infiltration methods are used, install them after upstream is stabilized
			6. Do not remove perimeter controls until upstream areas are stabilized
			Appropriate control measures and timing (scheduling and implementation) during construction process
1			Plan indicates that stabilization will be initiated by 14th day of construction if area is to be open 21 days
			Erosion and Sediment Controls
			Stabilization Practices
			a. Preserve existing vegetation where attainable and stabilize disturbed areas.
			b. Practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization,
			vegetative buffer strips, protection of trees, preserve mature vegetation, and other appropriate measures.
			c. Site map shows stabilization measures used, including quantity, materials, and/or specification(s)
			applicable.
			d. Description of procedures to maintain practices in effective operating conditions.



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	Included Review		
YES	NO	N/A	
			Structural Practices
			a. Description of structural practices placed on upland soils to the degree attainable to divert flows from exposed soils, store flows or limit runoff from exposed areas.
			b. Practices may include: silt fences, earth dikes, brush barriers, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforce soil retaining systems, gabions, and temporary or permanent sediment basins.
			c. Sediment basin providing 3,600 cubic feet of storage per acre drained or equivalent control measures are provided for common drainage locations that serve an area with more than 10 disturbed acres at one time.
			d. For drainage locations serving 10 or fewer acres, sediment traps, silt fences or equivalent sediment controls are required for all sideslopes and downslopes.
			e. Description of outlet structures designed to withdraw water from the surface when discharging from basins.
			f. Description of measures to provide and maintain natural bufferes around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration and minimuze soil compaction.
			g. Provide results of the soil survey prepared to document the depth of topsoil on-site prior to the commencement of soil distrubing activities. (Only required for site that will not be providing a minimum of 4.0 inches of topsoil at final stabalization)
			h. Site map shows stabilization measures used, including quantity, materials and/or specification(s) where applicable.
			i. Description of procedures to maintain practices in effective operating conditions.



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YES	ded Revi NO	ew N/A	
			Permanent Stormwater Management Controls a. Description of measures to control storm water pollution after construction such as retention ponds (wet basins), detention ponds (dry basins), infiltration measure, sequential systems, vegetated swales and natural depressions if practicable.
			b. Site map shows location of all permanent stormwater management controls.
			c. Velocity dissipation devices at discharge locations and along length of outfall channel.
			d. Description of the inspection and maintenance of these controls prior to final stabilization.
	П		Other Controls a. *Description of measures for proper disposal of construction site wastes and waste materials including but not limited to: construction debris, liquid and hazardous waste, containment to prevent loose and/or lightweight materials from being carried by wind.
7		der vo. abil	 b. *Description of how sanitary wastes generated on-site will be treated or disposed of in accordance with state and local requirements.
			c. Minimize off-site tracking of sediments and generation of dust or equivalent.
			d. *Site map indicates measures such as rock construction entrances/exits, limitations on traffic and parking, and other measures as necessary to prevent off-site tracking and dust generation.
			Non-stormwater Discharges a. Identify and ensure the implementation of appropriate pollution prevention measures including but not limited to discharges from such sources as concrete washout.
			Local Ordinance Requirements
			a. Submit a copy of the General Permit No. 2 authorization
			b. Submit a copy of the SWPPP & a copy of the SWPPP checklist signed by the SWPPP designer
			c. Submit a copy of the site plan.
			d. Submit a COSESCO application with fee.

Disclaimer: This checklist is based on requirements listed in IDNR General Permit Number 2 and includes additional items (*) added to assist MS-4 NPDES-permitted cities in the SWPPP review process. The form is provided for your convenience and is not intended as a substitute for IDNR General Permit No. 2 equirements. Refer to http://www.iowadnr.com/water/stormwater/forms.html for complete permit requirements. IDNR 319 funds were provided to AMU for the development of this guidance document. (WAUKEE 10/12)

PROJECTED CONSTRUCTION SCHEDULE

Initial Preparation of Site:

(Perimeter silt fencing and other temporary erosion control installation)

Contractor:	3D Erosion Control
Projected Start Date:	April 1, 2016
Projected Completion Date:	April 6, 2016
Actual Start Date:	
Actual Completion Date:	

Initial Grading Operations:

(Clearing and Grubbing, strip and stockpile topsoil)

Contractor:	Seamus Excavating, LLC
Projected Start Date:	April 1, 2016
Projected Completion Date:	April 10, 2016
Actual Start Date:	
Actual Completion Date:	

Mass Grading Operations:

(Rough grading and installation of sediment control)

Contractor:	Seamus Excavating, LLC
Projected Start Date:	April 10, 2016
Projected Completion Date:	May 15, 2016
Actual Start Date:	
Actual Completion Date:	

Installation of Underground Utilities:

Contractor:	Gator Excavating
Projected Start Date:	May 20, 2016
Projected Completion Date:	July 15, 2016
Actual Start Date:	
Actual Completion Date:	

Subgrade Preparation:

Contractor:	Seamus Excavating, LLC
Projected Start Date:	July 15, 2016
Projected Completion Date:	August 1, 2016
Actual Start Date:	
Actual Completion Date:	

Paving Operations:

Contractor:	Manatts
Projected Start Date:	August 1, 2016
Projected Completion Date:	October 1, 2016
Actual Start Date:	
Actual Completion Date:	

Final Backfill and Grading Operations:

Contractor:	Seamus Excavating, LLC	
Projected Start Date:	October 1, 2016	
Projected Completion Date:	October 22, 2016	
Actual Start Date:		
Actual Completion Date:		

Seeding and Final Stabilization: (Final seeding, sod placement, temporary erosion control removal)

Contractor:	3D Erosion Control
Projected Start Date:	September 2016
Projected Completion Date:	October 2016
Actual Start Date:	
Actual Completion Date:	

Building Construction:

Contractor:	Jerry's Homes
Projected Start Date:	July 2016
Projected Completion Date:	July 2017
Actual Start Date:	
Actual Completion Date:	

Operators Log

Project Name: Alice Patricia Homes – Waukee, IA SWPPP Contact: Chip Classon – Silver Oak Inc

Company Name	Address	City	State	Zip Code	Phone Number	Type of Construction Service to Be Provided
Paper Street Consultants	2701 71st Street	Urbandale	IA	50322	(515) 393-0311	Erosion Control Monitoring
Seamus Excavating, LLC	10623 Justin Drive	Urbandale	IA	50322	(515) 777-2970	Grading
Gator Excavating, LLC	3100 SE Miehe Drive	Grimes	IA	50111	(515) 270-2428	Utilities
Manatts	6333 NW Beaver Drive	Johnston	IA	50131	(515) 278-0247	Paving
3D Erosion Control	5485 NE 17 th Street, Suite E	Des Moines	1A	50313	(515) 689-1918	Seeding & Erosion Control
			ļ			
			-			

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: <u>28485-28228</u>

Project Title: Alice Patricla Homes
Operator(s):
As a contractor or subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.
Each contractor and subcontractor engaged in activities at the construction site that could impact stormwater mus be identified and sign the following certification statement:
I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of lowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.
This certification is hereby signed in reference to the above named project:
Company: Seamus Exeruating
Address: 10623 Justin Dr. Urburale In 50322
Telephone Number: <u>5/5-777-2976</u>
Type of construction service to be provided: Site Greding
Signature:
Title: Eshmator
Date: 3-31-16

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 28485-28228

Project Title: Alice Patricia Homes
Operator(s):
As a contractor or subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.
Each contractor and subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:
I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of lowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.
This certification is hereby signed in reference to the above named project:
Company: GATOR EXCAVATING, INC.
Address: 3100 SE MIEHE DRIVE
Tolophono Number: 515-290-2428
Type of construction service to be provided: SITE UTILITIES
Signature: <u>Alan' Mac "Mi-Coneaghory</u> Title: <u>PROJECT MANAGER</u> Date: <u>MARCH</u> 31, 2016

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 28485-28228
Project Title: Alice Patricia Homes
Operator(s):
As a contractor or subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employee working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.
Each contractor and subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:
I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of lowal to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.
This certification is hereby signed in reference to the above named project:
Company: Manatt's Inc.
Address: 6333 N.W. Beaver Rd. Johnston, Iowa 50131
Telephone Number: _515-278-0247
Type of construction service to be provided: PCC Concrete Street Paving
Signature: Metro Diuscon Paury Manneer
Date: 03/31/2016

CONTRACTOR/SUBGONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

NPDES Permit Authorization Number: 28485-28228

Project Title: Alice Patricia Homes

Operator(s).	SILVER OAK INC.
(SWPPP) for a may be subject	or subcontractor, you are required to comply with the Stermwater Pollution Prevention Plan my work that you perform on-site. Any person or group who violates any condition of the SWPPP to substantial penalties or loss of contract. You are encouraged to advise each of your employees project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at r.
	or and subcontractor engaged in activities at the construction site that could impact stammwater must and sign the following certification statement:
Discharge Eli Industrial acti understand th subcontractor Associated w understand the to ensure con	penalty of law that I understand the terms and conditions of the general National Pollutant mination System (NPDES) permit that authorizes the storm water discharges associated with vity from the construction site as part of this certification. Further, by my signature, I sat I am becoming a co-permittee, along with the owner(s) and other contractors and resigning such certifications, to NPDES General Permit No. 2 for "Storm Water Discharge lith Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I not I, and my company, are legally required under the Clean Water Act and the Code of lowa, inpliance with the terms and conditions of the storm water pollution prevention plan der this NPDES permit.
This certification	on is hereby signed in reference to the above named project.
Cempany:	3D Erosion Control
Address:	201 Fulton Dr. Des Moines, IA.
Telephone Nu	mber: (515)689-1918
Type of constr	auction service to be provided: Erosion & Sediment Control
Signature:	Terry Centities
Title:	Owner
Date	3.31.16

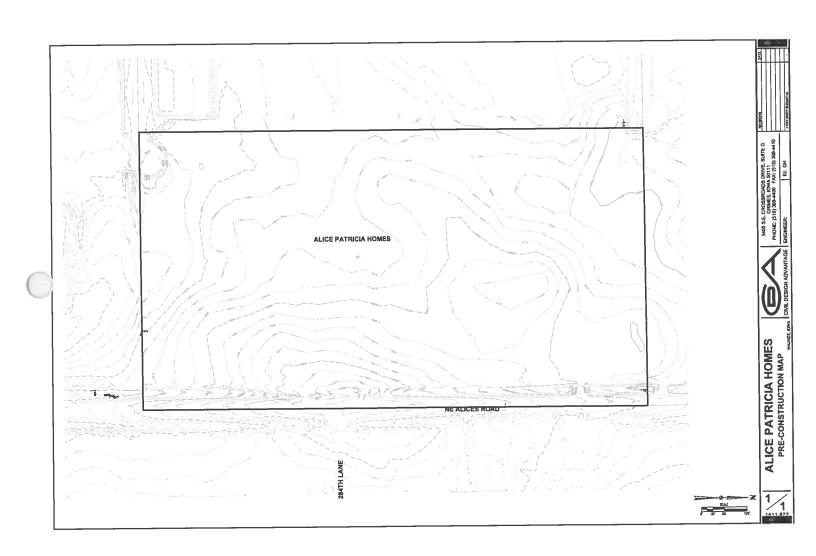
CONTRACTOR/SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

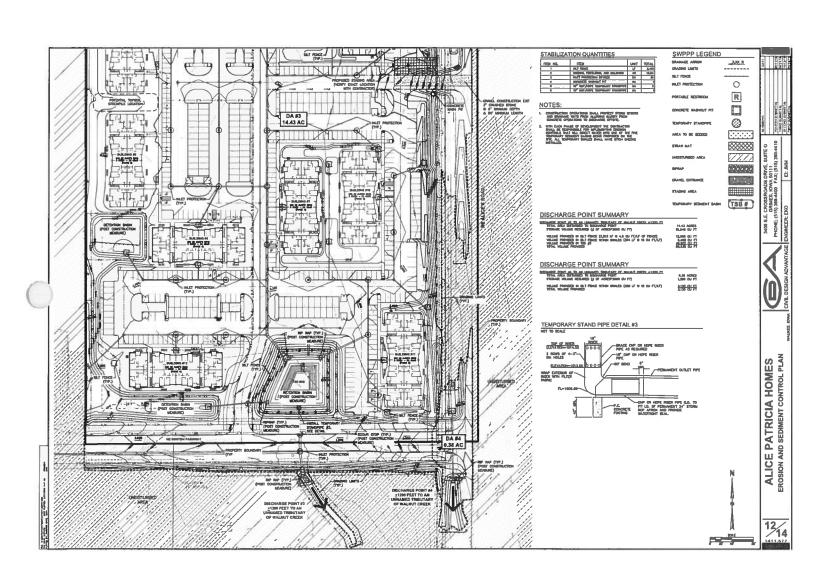
NPDES Permit Authorization Number: 28485-28228					
Project Title: Alice Patricia Homes					
Operator(s):SILVER OAK INC.					
As a contractor or subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.					
Each contractor and subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:					
I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of lowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.					
This certification is hereby signed in reference to the above named project:					
Company: PAPER STREET CONSULTANTS LLC					
Address: 2701 71ST ST. URBANDALE, IOWA 50322					
Telephone Number:515.393.0311					
Type of construction service to be provided: SWPPP, NPDES MONITORING					
Signature: PARTNER PARTNER					

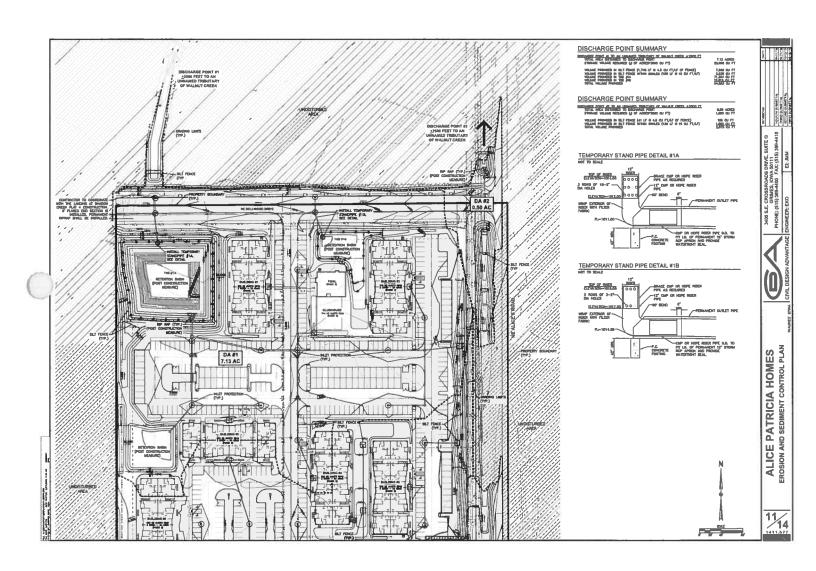
3.31.16

Date:









3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

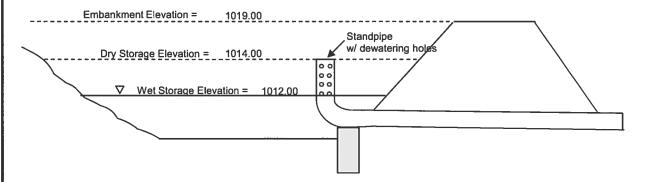
PROJECT: Alice Patricia Homes JOB NO. 1411.577 Page 1 of 3 Pages

SUBJECT: Sediment Basin #1A Calculations DATE: 08/04/15 COMP. BY: BAK OK'D BY:

Sediment Basin Design:

Design Considerations:

- * Required to provide a storage volume of 3600 cf of volume per acre
- * The standpipe is designed to release at the 2-year, 24-hour peak storm event
- * The dewatering orifice is designed for a 6-hour drawdown of the dry storage area
- * The emergency splillway should be designed to allow the 25-year peak storm event



1. Size the Standpipe required for the 2-yearpeak Storm (Principal Spillway Calculations)

$$I_2 = 3.16 \text{ in/hr}$$
 *Assume $T_c = 15 \text{ min.}$

$$Q_2 = 3.97$$
 cfs

a. Compare the Weir & Orifice Equations to determine the size

Q =
$$10.5 \times d \times h^{3/2}$$
 Q = $0.6 \times A \times \sqrt{2gh}$ Q = 117.39 cfs Q = 8.46 cfs

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Alice Patricia Homes JOB NO. 1411.577 Page 2 of 3 Pages
SUBJECT: Sediment Basin #1A Calculations DATE: 08/04/15 COMP. BY: BAK OK'D BY:

2. Sediment Basin Volume Calculation

Wet Storage Volume:

Elevation	Area	Average	Volume
	ft ²	Area, ft ²	ft ³
1011	20189		0
1012	22520	21355	21355

	04.055	_
Wet Storage Provided =	21,355	cf
Top Wet Storage Elev =	1012.00	
Dry Storage Provided =	50,009	cf
Top Dry Storage Elev =	1014.00	
Total Storage Provided =	71,364	cf
Embankment Elevation =	1019.00	

Dry Storage Volume:

Diff official			
Elevation	Area	Average	Volume
	ft²	Area, ft ²	ft ³
1012	22520		0
1013	24974	23747	23747
1014	27550	26262	50009

3. Size Dewatering Orifice for a 6-hour Drawdown

a) Determine the flowrate of the Dry Volume

Q_d = Dry Storage Volume / 6-hours

 $Q_d = 2.32$ cfs

- b) Determine the average head of the perforation area (ha)
 - * Assume the perforations begin 3-inches below top of standpipe

 $h_a = (h_p - h_c) / 2$ $h_p = Dry Storage Elevation - Wet Storage Elevation = 2.00$

 $h_c = [(Dry Storage Elevation - 3") - Wet Storage Elevation] / 2 = 0.88 ft$

 $h_a = 0.56$ ft

c) Determine the total orifice area required

 $A = Q_d / [0.6 * (2gh_a)^{1/2}] = 0.64 sf$

d) Result

2 inch diameter holes result in requiring 30 perforations.

Therefore, provide 3 rows of 10-2" diameter holes.

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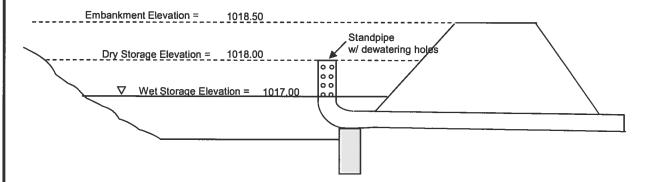
PROJECT: Alice Patricia Homes JOB NO. 1411.577 Page 1 of 3 Pages

SUBJECT: Sediment Basin #1B Calculations DATE: 08/04/15 COMP. BY: BAK OK'D BY:

Sediment Basin Design:

Design Considerations:

- * Required to provide a storage volume of 3600 cf of volume per acre
- * The standpipe is designed to release at the 2-year, 24-hour peak storm event
- * The dewatering orifice is designed for a 6-hour drawdown of the dry storage area
- * The emergency splillway should be designed to allow the 25-year peak storm event



1. Size the Standpipe required for the 2-yearpeak Storm (Principal Spillway Calculations)

Drainage Area = 1.1 Ac

 $I_2 = 3.16$ in/hr *Assume $T_c = 15$ min.

C = 0.25 (Undeveloped Surface)

 $Q_2 = 0.87$ cfs

a. Compare the Weir & Orifice Equations to determine the size

Try a 12 inch riser h = Embankment Elevation - Dry Storage Elevation = 0.50 ft

Weir Equation Orifice Equation

Q = 10.5 x d x h^{3/2} Q = 0.6 x A x $\sqrt{2gh}$ Q = 0.6 x A x $\sqrt{2gh}$ Q = 2.67 cfs

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Alice Patricia Homes JOB NO. 1411.577 Page 2 of 3 Pages

SUBJECT: Sediment Basin #1B Calculations DATE: 08/04/15 COMP. BY: BAK OK'D BY:

2. Sediment Basin Volume Calculation

Wet Storage Volume:

Elevation	Area	Average	Volume
	ft²	Area, ft ²	ft ³
1015	134		0
1016	2547	1341	1341
1017	5595	4071	5412

Wet Storage Provided =	5,412	cf
Top Wet Storage Elev =	1017.00	ij
Dry Storage Provided =	7,407	cf
Top Dry Storage Elev =	1018.00	
Total Storage Provided =	12,818	cf
Embankment Elevation =	1018.50	

Dry Storage Volume:

Elevation	Area	Average	Volume
	ft²	Area, ft ²	ft ³
1017	5595		0
1018	9218	7407	7407

3. Size Dewatering Orifice for a 6-hour Drawdown

a) Determine the flowrate of the Dry Volume

Q_d = Dry Storage Volume / 6-hours

 $Q_d = 0.34$ cfs

- b) Determine the average head of the perforation area (ha)
 - * Assume the perforations begin 3-inches below top of standpipe

 $h_a = (h_p - h_c) / 2$

h_p = Dry Storage Elevation - Wet Storage Elevation =

1.00 ft

h_c = [(Dry Storage Elevation - 3") - Wet Storage Elevation] / 2 =

[0.38] = 0.38 ft

 $h_a = 0.31$ ft

c) Determine the total orifice area required

$$A = Q_d / [0.6 * (2gh_a)^{1/2}] =$$

0.13 sf

d) Result

2 inch diameter holes result in requiring

6 perforations.

Therefore, provide 2 rows of 3-2" diameter holes.

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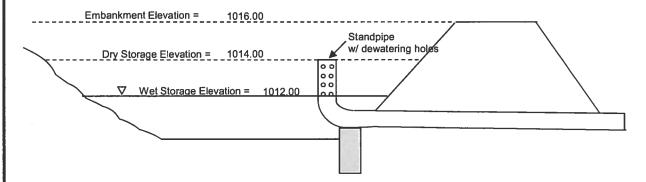
PROJECT: Alice Patricia Homes JOB NO. 1411.577 Page 1 of 3 Pages

SUBJECT: Sediment Basin #3 Calculations DATE: 08/04/15 COMP. BY: BAK OK'D BY:

Sediment Basin Design:

Design Considerations:

- * Required to provide a storage volume of 3600 cf of volume per acre
- * The standpipe is designed to release at the 2-year, 24-hour peak storm event
- * The dewatering orifice is designed for a 6-hour drawdown of the dry storage area
- * The emergency splillway should be designed to allow the 25-year peak storm event



1. Size the Standpipe required for the 2-yearpeak Storm (Principal Spillway Calculations)

Drainage Area = 14.4 Ac

 $I_2 = 3.16 \text{ in/hr}$ *Assume $T_c = 15 \text{ min.}$

C = 0.25 (Undeveloped Surface)

 $Q_2 = 11.40 \text{ cfs}$

a. Compare the Weir & Orifice Equations to determine the size

Try a 18 inch riser h = Embankment Elevation - Dry Storage Elevation = 2.00 ft

Weir Equation Orifice Equation

Q = 10.5 x d x h^{3/2} Q = 0.6 x A x $\sqrt{2gh}$

Q = 44.55 cfs Q = 12.03 cfs

3405 SE Crossroads Dr., SUITE G GRIMES, IA 50111

PROJECT: Alice Patricia Homes JOB NO. 1411.577 Page 2 of 3 Pages

SUBJECT: Sediment Basin #3 Calculations DATE: 08/04/15 COMP. BY: BAK OK'D BY:

2. Sediment Basin Volume Calculation

Wet Storage Volume:

Elevation	Area	Average	Volume
	ft ²	Area, ft ²	ft ³
1010	8820		0
1011	10381	9601	9601
1012	12049	11215	20816
1			

Wet Storage Provided =	20,816	cf
Top Wet Storage Elev =	1012.00	
Dry Storage Provided =	27,691	cf
Top Dry Storage Elev =	1014.00	
Total Storage Provided =	48,507	cf
Embankment Elevation =	1016.00	

Dry Storage Volume:

Elevation	Area	Average	Volume
	ft²	Area, ft ²	ft ³
1012	12049		0
1013	13820	12935	12935
1014	15693	14757	27691
1			

3. Size Dewatering Orifice for a 6-hour Drawdown

a) Determine the flowrate of the Dry Volume

Q_d = Dry Storage Volume / 6-hours

 $Q_d = 1.28$ cfs

- b) Determine the average head of the perforation area (ha)
 - * Assume the perforations begin 3-inches below top of standpipe

 $h_a = (h_p - h_c) / 2$

h_p = Dry Storage Elevation - Wet Storage Elevation =

2.00 ft

h_c =

 $h_c = [(Dry Storage Elevation - 3") - Wet Storage Elevation] / 2 = 0.88 ft$

 $h_a = 0.56$ ft

c) Determine the total orifice area required

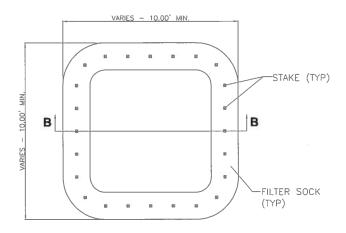
$$A = Q_d / [0.6 * (2gh_a)^{1/2}] = 0.36 \text{ sf}$$

d) Result

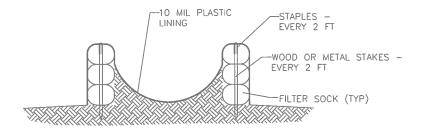
3 inch diameter holes result in requiring 8 perforations.

Therefore, provide 2 rows of 4-3" diameter holes.

CONCRETE WASHOUT DETAIL



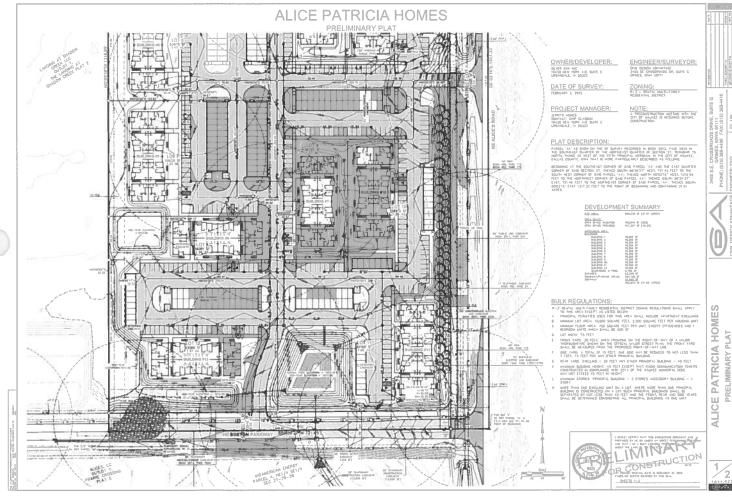
PLAN-TEMPORARY CONCRETE WASHOUT **ABOVE GRADE- N.T.S.**



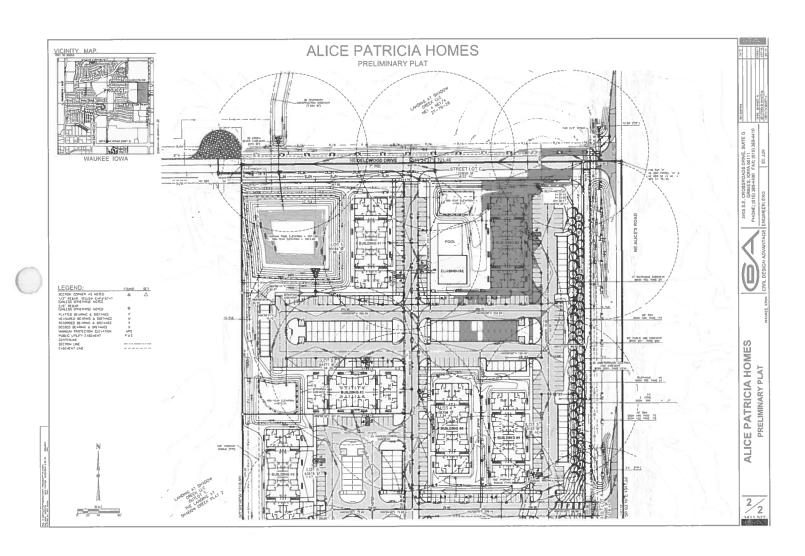
SECTION B-B

N.T.S.

- NOTES:
 1. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED IN FIELD BY THE CONTRACTOR.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- 3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
 4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 75% FULL.







INSPECTOR QUALIFICATIONS

Inspection Personnel

The contractor or owner must have "qualified" personnel inspect all of the disturbed areas on the site. Personnel selected to conduct inspections should be knowledgeable in the principles and practices of erosion and sediment controls, possess the technical skills to assess conditions at the construction site that could impact storm water quality, and assess the effectiveness of any sediment and erosion control measures selected.

An inspection report should be completed after each inspection and should be signed and certified by the inspector.

Inspection Schedule and Procedures

- 1. All control measures will be inspected at least once every seven (7) calendar days.
- 2. All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of the report and completed within 7 days of the event.
- 3. A maintenance inspection report will be made after each inspection and recorded in the project SWPPP. The report will be signed by the inspector performing the inspection.
- 4. The inspector will then distribute copies of the inspection report to the owner, general contractor and erosion control contractor. Corrective actions will need to be initiated within 24 hours of receiving the report.
- 5. The contractor/owner will be responsible for maintaining records for 3 years from the date the site is finally stabilized.

SWPPP Inspectors							
Inspector Name							

STORMWATER POLLUTION PREVENTION TRAINING LOG

Project Name:	Alice Patricia Homes			
Project Location:	West of the intersection of NE Alice's Road and 284th Lane – Waukee, IA			
Date:				
Instructor's Name:				
Instructor's Title:				
Course Location:				
Course Length:				
Stormwater Trainin	g Topic:			
☐ Erosion C	ontrol BMP's		Emergency Procedures	
□ Sediment	Control BMP's		Good Housekeeping BMP's	
□ Non-Storm	nwater BMP's		Inspection Procedures	

Attendee Roster

No.	Name of Attendee	Company	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			

Corrective Action Log

Project Name: Alice Patricia Homes – Waukee, IA **SWPPP Contact:** Chip Classon – Silver Oak Inc

Inspection Date	Inspector Name(s)	Description of BMP Deficiency	Corrective Action Needed (including planned date/responsible person)	Date Action Taken/Responsible person
	-			

Stormwater Construction Site Inspection Report

General Information						
Project Name	Alice Patricia Homes					
NPDES Authorization Number	28485-28228	Location	West of the intersection of NE Alice's Road and 284 th Lane – Waukee, IA			
Date of Inspection		Start/End Time				
Inspector's Name(s)						
Inspector's Title(s)						
Inspector's Contact Information						
Inspector's Qualifications						
Describe present phase of construction						
	Weather In	formation				
Has there been a storm event since If yes, provide: Storm Start Date & Time:	e the last inspection?		Amount of Precipitation (in):			
Weather at time of this inspection? □ Clear □ Cloudy □ Rain □ Sleet □ Fog □ Snowing □ High Winds □ Other: Temperature:						
Have any discharges occurred since the last inspection? □Yes □No If yes, describe:						
Are there any discharges at the tir If yes, describe:	Are there any discharges at the time of inspection?					

Site-specific BMPs

- Number the structural and non-structural BMP's identified on the erosion and sediment control plan and list them below. The location should be described and the information filled out properly in each column.
- If BMP's need to be repaired, corrective actions need to be noted in the Corrective Action Log in Section 5 of the SWPPP.

	ВМР	Location	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1			□Yes □No	□Yes □No	
2			□Yes □No	□Yes □No	
3			□Yes □No	□Yes □No	
4			□Yes □No	□Yes □No	
5			□Yes □No	□Yes □No	
6			□Yes □No	□Yes □No	

	ВМР	Location		BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
7				□Yes □No	□Yes □No	
8				□Yes □No	□Yes □No	
9				□Yes □No	☐Yes ☐No	
10				□Yes □No	□Yes □No	
11				□Yes □No	□Yes □No	
12				□Yes □No	□Yes □No	
				Overall Site l		
	BMP/activity		Implemented?	Maintenan Required?	ce Correcti	ive Action Needed and Notes
1	Are all slopes and areas not actively worked properly	being	□Yes □No	□Yes □Ne	0	
2	Are natural resou (e.g., streams, we mature trees, etc. with barriers or s BMPs?	rce areas tlands,) protected	□Yes □No	□Yes □No	0	
3	Are perimeter consediment barriers installed (keyed i substrate) and ma	adequately nto	□Yes □No	□Yes □Ne	0	
4	Are discharge po receiving waters sediment deposits	free of any	□Yes □No	☐Yes ☐Ne	0	
5	Are storm drain i properly protecte		□Yes □No	□Yes □Ne	0	
6	Is the construction preventing sedime being tracked into	ent from	□Yes □No	☐Yes ☐Ne	0	
7	Is trash/litter from collected and plat covered dumpstet acceptable trash i	ced in rs or other	□Yes □No	☐Yes ☐Ne	0	
8	Are the concrete facilities available	washout e, clearly	□Yes □No	□Yes □N	0	

marked, and maintained?

BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
Are vehicle and equipme fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	of	□Yes □No	
Are materials that are potential stormwater contaminants stored insiunder cover?	de or	□Yes □No	
Are non-stormwater discharges (e.g., wash w dewatering) properly controlled?	ater, □Yes □No	□Yes □No	
Are the portable restroor facilities securely fasten- the ground and areas are from any spills or leaks?	ed to free	□Yes □No	
Any seed, mulch or othe stabilizing measures nee be repaired or reapplied	er Yes No	□Yes □No	
		Non-Complianc	e
	CERTI	FICATION STA	FEMENT
supervision in accordance the information submitte directly responsible for g	te with a system designed. Based on my inquiry gathering the information of complete. I am aware to	ed to assure that que of the person or pen, the information that there are signi	nts were prepared under my direction or nalified personnel properly gathered and evaluated ersons who manage the system, or those persons submitted is, to the best of my knowledge and ficant penalties for submitting false information, plations."
Print name and title: _			

Grading and Stabilization Activities Log

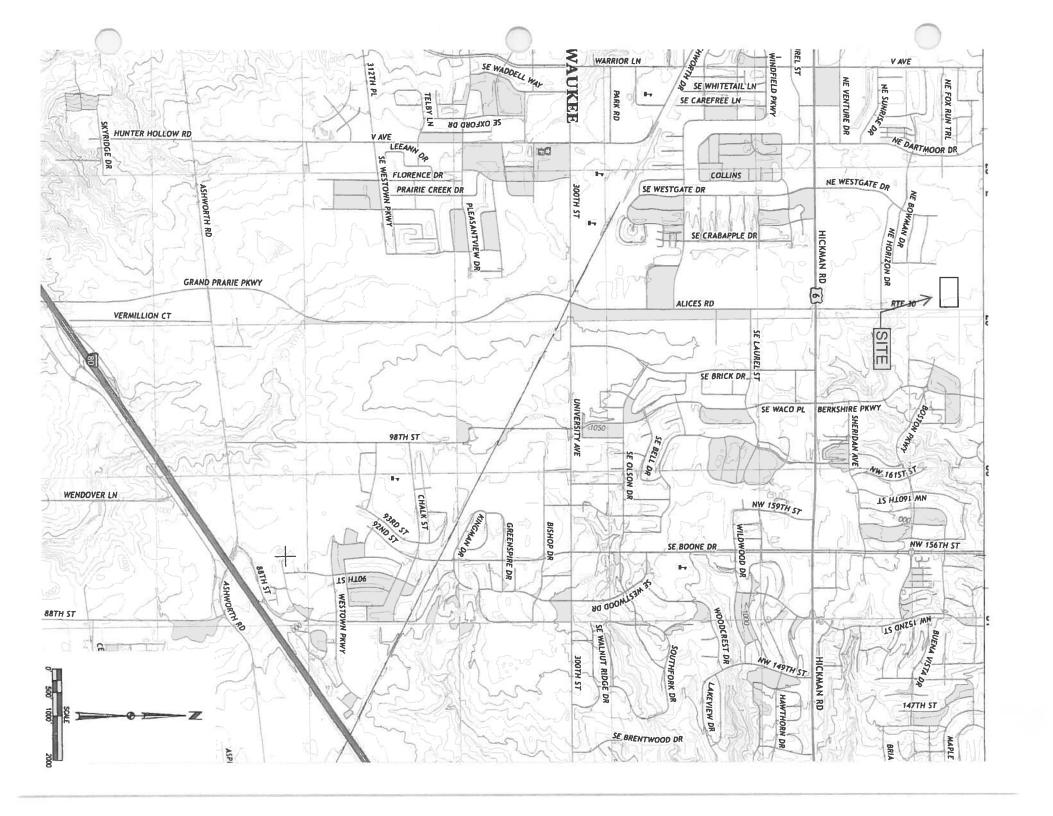
Project Name: Alice Patricia Homes – Waukee, IA **SWPPP Contact:** Chip Classon – Silver Oak Inc

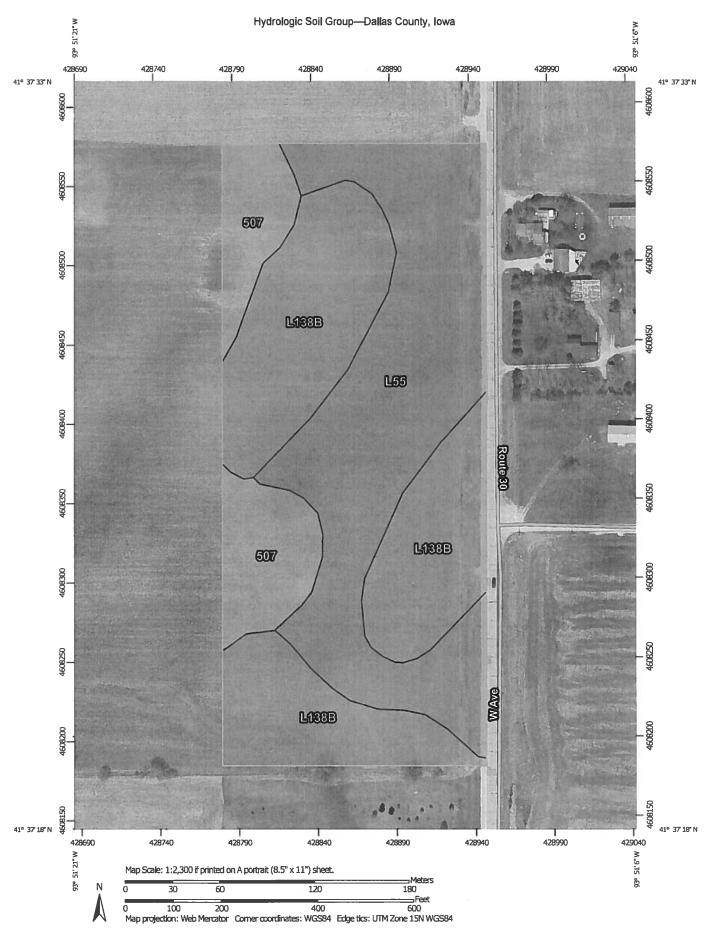
Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (indicate Temporary or Permanent)	Date When Stabilization Measures are initiated	Description of Stabilization Measure and Location

U.S. Fish & Wildlife Service Endangered Species County: Dallas, Iowa

The following is a re	The following is a report containing Species that are known to or are belived to occur in Dallas County, Iowa.							
Group	<u>Name</u>	<u>Population</u>	<u>Status</u>	Lead Office	Recovery Plan Name	Recovery Plan Stage		
				Kansas Ecological Services Field				
Fishes	Topeka Shiner (Notropis topeka (=tristis))	Entire	Endangered	Office				
	Prairie bush-clover (Lespedeza			Twin Cities Ecological Services				
Flowering Plants	leptostachya)		Threatened	Field Office	Prairie Bush-clover	Final		
	Western prairie fringed Orchid			Twin Cities Ecological Services				
Flowering Plants	(Platanthera praeclara)		Threatened	Field Office	Western Prairie Fringed Orchid	Final		
	Northern Long-Eared Bat (Myotis		Proposed	Green Bay Ecological Services				
Mammals	septentrionalis)		Endangered	Field Office				

Website Source: http://ecos.fws.gov/tess_public/ Date Downloaded: May 12, 2014



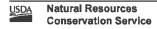


MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at 1:15,800. Area of Interest (AOI) C Area of Interest (AOI) C/D Warning: Soil Map may not be valid at this scale, Soils D Enlargement of maps beyond the scale of mapping can cause Soil Rating Polygons misunderstanding of the detail of mapping and accuracy of soil line Not rated or not available Α placement. The maps do not show the small areas of contrasting **Water Features** soils that could have been shown at a more detailed scale. AVD Streams and Canals В Please rely on the bar scale on each map sheet for map Transportation measurements. B/D +++ Rails Source of Map: Natural Resources Conservation Service C Interstate Highways Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov C/D Coordinate System: Web Mercator (EPSG:3857) **US Routes** D Major Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Not rated or not available Local Roads distance and area. A projection that preserves area, such as the Soil Rating Lines **Background** Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. Aerial Photography This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. В Soil Survey Area: Dallas County, Iowa B/D Survey Area Data: Version 20, Sep 9, 2014 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. D Date(s) aerial images were photographed: Data not available. Not rated or not available The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background **Soil Rating Points** imagery displayed on these maps. As a result, some minor shifting Α of map unit boundaries may be evident. A/D В 15 B/D 篇

Rating Options

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher





Watershed Assessment, Tracking & **Environmental ResultS**

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<u>Water</u>

WATERS Water Quality Assessment and TMDL Information

Watershed Quality

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On This Page

- Listed Waters Summary
- Causes of **Impairment**
- Cumulative TMDLs by Pollutant

Iowa State Report

For More Information:

Download Excel compatible information

Download GIS Information (Internet Explorer only)

Water Quality Data Available for this Watershed

Iowa, North Raccoon Watershed

Features

- About This Database (Integrated Report)
- · Assessing Water Quality (Questions and Answers)
- Integrated Reporting Guidance
- Previous National Water Quality Reports
- EnviroMapper for Water
- AskWATERS
- EPA WATERS Homepage
- Exchange Network
- Assessment Database
- Statewide Statistical Surveys
- How's My Waterway Local Search tool
- Pollution Categories Summary Document
- · Nitrogen and Phosphorus Pollution Data Access Tool (NPDAT)

Click on the watershed for an interactive map

Search for a waterbody within North Raccoon

Enter Waterbody Name:

Search

Listed Waters for Reporting Year 2012 Iowa, North Raccoon Watershed

Description of this table

NOTE: Click	NOTE: Click on the underlined "Waterbody Name" to view a Waterbody report.						
Waterbody Name	Waterbody ID	<u>Location</u>	Waterbody Type	Size	<u>Units</u>	State TMDL Development Status	
		From The West Line Of S15 T88n R28w (Webster Co.) To The Dam Of The Ft. Dodge Impoundment.	River	10.2	miles		
		From The West Line Of S15 T88n R28w (Webster Co.) To The Dam Of The Ft. Dodge Impoundment.	River	10.2	miles		
III-IK KIIN I	IA 04-RAC- 0127_0	Mouth-> Dd-72/81 S5t85nr34w Carroll Co	River	7.1	miles		
III IK KIIN I	IA 04-RAC- 0127_0	Mouth-> Dd-72/81 S5t85nr34w Carroll Co	River	7.1	miles		
Marrowbone Creek	IA 04-RAC- 0123_0	Mouth To Trib S17t85nr33w Carroll Co.	River	.957	miles		
Marrowbone Creek	IA 04-RAC- 0123_0	Mouth To Trib S17t85nr33w Carroll Co.	River	.957	miles		
HR ACCOON 1	IA 04-RAC- 0050_2	From County Road M54 (S24t88n R36w Sac Co.) To Confluence With Drainage Ditch 101 In S36 T91n R36w Buena Vista Co.	River	25.55	miles		
		<u> </u>			1		

		-	•		
		From County Road M54 (S24t88n R36w Sac Co.) To Confluence With Drainage Ditch 101 In S36 T91n R36w Buena Vista Co.	River	25.55	miles
		Calhoun County, S1,T88n,R33w, 4 Mi N Of Rockwell City	Freshwater Lake	454	acres
Pickerel Lake	IA 04-RAC- 01690-L_0	Buena Vista County S1t93nr35w 4 Mi Ne Of Marathon.	Wetland	35	acres
Pickerel Lake	I .	Buena Vista County S1t93nr35w 4 Mi Ne Of Marathon.	Wetland	35	acres
Poor Farm Creek	IA 04-RAC- 01695_0	Mouth (T91n R36w Sec 15 Buena Vista Co.) To Headwaters In S34 T91n R37w Buena Vista Co.	River	10.222	miles
Poor Farm Creek	IA 04-RAC- 01695_0	Mouth (T91n R36w Sec 15 Buena Vista Co.) To Headwaters In S34 T91n R37w Buena Vista Co.	River	10.222	miles
	IA 04-RAC- 01395-L_0	Calhoun County S1t88nr33w 3 Mi N Of Rockwell City.	Wetland	600	acres
South Twin Lake	IA 04-RAC- 01395-L_0	Calhoun County S1t88nr33w 3 Mi N Of Rockwell City.	Wetland	600	acres
Storm Lake	IA 04-RAC- 00530-L_0	Buena Vista County S14t90nr37w At Storm Lake.	Freshwater Lake	3147	acres
Storm Lake	IA 04-RAC- 00530-L_0	Buena Vista County S14t90nr37w At Storm Lake.	Freshwater Lake	3147	acres

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Causes of Impairment for Reporting Year 2012 Iowa, North Raccoon

Description of this table

<u>Description of this table</u>					
Cause of Impairment	Number of Causes Reported				
Indicator Bacteria	3				
Algal Growth/Chlorophyll A	2				
Cause Unknown - Biological Integrity	2				
Turbidity	2				
Fish Kill Caused By Animal Waste	1				
Fish Kill Caused By Fuel Spill	1				
Organic Enrichment/Low Dissolved Oxygen	1				

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Cumulative TMDLs by Pollutant Iowa, North Raccoon Watershed

This chart includes TMDLs since October 1, 1995.

Description of this table

NOTE: Click on the underlined "Number of TMDLs Completed" value to see a listing of those approved TMDLs for the pollutant.					
Pollutant	Number of TMDLs Completed	Number of Causes of Impairment Addressed			
Escherichia Coli (E. Coli)	5	9			

8/20/2015

Watershed Quality Assessment Report | WATERS | US EPA

Turbidity	3	4
Excess Algal Growth	2	3
<u>Nitrate</u>	2	2
Clarity	1	2
Phosphorus, Total	1	2
Total Suspended Solids (TSS)	1	2

Total: 15 TMDLs; 0 Causes of Impairment

Search TMDL Documents Full Text Search of TMDL Documents

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 $\label{lem:http://iaspub.epa.gov/tmdl_waters10/attains_watershed.control?p_huc=07100006&p_cycle=&p_report_type=T\\ \underline{Print\ As-Is}$

Last updated on 8/20/2015

This document will now print as it appears on screen when you use the File » Print command.

Use View » Refresh to return to original state.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Dallas County, Iowa (IA049)					
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
507	Canisteo silty clay loam, 0 to 2 percent slopes	C/D	2,3	14.3%	
L55	Nicollet loam, 1 to 3 percent slopes	B/D	6.9	42.5%	
L138B	Clarion loam, Bemis moraine, 2 to 6 percent slopes	В	7.0	43.2%	
Totals for Area of Interest			16.3	100.0%	

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.



Natural Resources

IOWA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL SERVICES DIVISION FIELD SERVICES & COMPLIANCE BUREAU EMERGENCY RESPONSE UNIT

Iowa Administrative Code Chapter 131 Notification of Hazardous Conditions

24 hour number for release reporting 515/281-8694

Summary of Key Points and Definitions

Definitions

"Hazardous Condition" means any situation involving the actual, imminent or probable spillage, leakage, or release of a hazardous substance onto the land, into a water of the state or into the atmosphere which, because of quantity, strength and toxicity of the hazardous substance, its mobility in the environment and its persistence, creates an immediate or potential danger to the public health or safety or to the environment.

"Hazardous Substance" means any substance or mixture of substance that presents a danger to the public health or safety and includes, but is not limited to, a substance that is toxic, corrosive, or flammable, or that is an irritant or that, in confinement, generates pressure through decomposition, heat, or other means. The following are examples of substances which, in sufficient quantity, may be hazardous: acids; alkalis; explosives; fertilizers; heavy metals such as chromium, arsenic, mercury, lead, and cadmium; industrial chemicals; paint thinners; paints; pesticides; petroleum products; poisons; radioactive materials; sludges; and organic solvents. "Hazardous substances" may include any hazardous waste identified or listed by the administrator of the United States Environmental Protection Agency under the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976, or any toxic pollutant listed under Section 307 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous substance designated under Section 311 of the federal Water Pollution Control Act as amended to January 1, 1977, or any hazardous material designated by the secretary of transportation under the Hazardous Materials Transportation Act (49 CFR 172.101)

Key Points

Who is Required to Report Hazardous Conditions. Any person manufacturing, storing, handling, transporting, or disposing of a hazardous substance shall notify the department at (515) 281-8694 and the local police department or the office of the sheriff of the affected county of the occurrence of a hazardous condition as soon as possible but not later than six hours after the onset of the hazardous condition or the discovery of the hazardous condition. A sheriff or police chief who has been notified of a hazardous condition shall immediately notify the department. Reports made pursuant to this rule shall be confirmed in writing as provided in 131.2(2).

Reporting Subsequent Findings. All subsequent finding and laboratory results should be reported and submitted in writing to the department as soon as they become available.

Reminder ~ Verbal Reports Are Required Within 6 Hours of Incidence Occurrence or Discovery.

Natural Resources

IOWA DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL SERVICES DIVISION FIELD SERVICES & COMPLIANCE BUREAU EMERGENCY RESPONSE UNIT

Guidelines for Reporting Hazardous Conditions Verbal Reporting

24 hour number for release reporting 515/281-8694

Report the Con	dition	if:
----------------	--------	-----

The hazardous substance has the potential to leave the property by run-off, sewers tile lines, culverts, drains, utility lines, or some other conduit, or,
The hazardous substance has the potential to reach a water of the state – either surface water or groundwater or,
The hazardous substance can be detected in the air at the boundaries of the facility property by the senses (sight and smell) or by monitoring equipment or,
There is a potential threat to the public health and safety or,
Local officials (Fire department, law enforcement, Hazmat, public health, and emergency management) respond to the incident or,
The release exceeds a Federal Reportable Quantity (RQ).

~ If in Doubt, Report It ~

IDNR REQUIRES VERBAL REPORTS WITHIN 6 HOURS OF INCIDENCE OCCURRENCE OR DISCOVERY

- It is recommended that all spills be cleaned up although a particular spill may not be reportable. A series of small spills over time can result in one big cleanup.
- Department rules stress the immediate or <u>potential</u> danger that a spill may cause.
- A written report of the Hazardous Condition is required within 30 days of the verbal notification.

In general, Iowa reporting requirements are more stringent than Federal reporting requirements. However, the **time limit** for reporting at the Federal level is more immediate.

IOWA DEPARTMENT OF NATURAL RESOURCES



ENVIRONMENTAL SERVICES DIVISION FIELD SERVICES & COMPLIANCE BUREAU EMERGENCY RESPONSE UNIT

Guidelines for Reporting Hazardous Conditions Written Report Requirements

24 hour number for release reporting 515/281-8694

The Iowa Department of Natural Resources
Requires a written report of any Hazardous Condition.
(VERBAL REPORT REQUIRED WITHIN 6 HOURS)

Written Report. The written report of such a hazardous condition shall be submitted to the department within 30 days and contain the following information:

- a. The exact location of the hazardous condition.
- b. The time and date of onset or discovery of the hazardous condition.
- c. The name of the material, the manufacturer's name, and the volume of each material involved in the hazardous condition in addition to contaminants within the material if they by themselves could cause a hazardous condition.
- d. The medium (land, water, or air) in which the hazardous condition occurred or exists.
- e. The name, address, and telephone number of the party responsible for the hazardous condition.
- f. The time and date of the verbal report to the department of the hazardous condition.
- g. The weather conditions at the time of the hazardous condition onset of discovery.
- h. The name, mailing address, and telephone number of the person reporting the hazardous condition.
- i. The name and telephone of the person closest to the scene of the hazardous condition who can be contacted for further information and action.
- j. Any other information, such as the circumstances leading to the hazardous condition, visible effects, and containment measures taken that may assist in the proper evaluation by the department.

The written report should include the IDNR Spill Number (assigned at the time of the verbal report) and be addressed to the duty officer responding to the spill. Reports can be sent via mail, fax, or electronic mail to the addresses listed below.

Mail	Fax	E-Mail
IDNR Emergency Response Unit 502 E. 9 TH Street Des Moines, IA 50319-0034	515-281-7229	This form can be e-mailed to: Emergency_Response@dnr.iowa.gov



Written Report for Hazardous Conditions

The Iowa Department of Natural Resources Requires a written report of any Hazardous Condition.

(VERBAL REPORT REQUIRED WITHIN 6 HOURS)

Written Report. The written report of a hazardous condition shall be submitted to the department within 30 days and contain the following information (Please complete as much as possible):

DNR Spill Number f	or hazardous con	ditio	n:							
Location of hazardo	ous condition:									
Physical Address						city				
Legal Address	Lat/Long or Twn/Rng zip									
Other description										
Time and Date of or	nset or discovery	of ha	zardous co	ndition	:					
Time	AM PM	Date								
Time and Date of ve	erbal report to the	depa	artment of t	he haza	ırdoı	us cond	itio	n:		
	AM □ PM									
The Hazardous Cor	dition									
Name of material			Monut	acturer					Volur	
Name of material	/substance(s)		Manui	acturer					voiui	ne
								,		
If more space is	needed add addit	ional	pages. Atta	ch a Ma	teria	l Safety	Dat	ta Sheet	(MSDS)	if possible.
The medium in whi	ob the beverdage	aand	lition occur	rodlovic	ato d	(Chook	oll -	that ann	ls.As	•
Ground Water	Surface V			Lan		(Cileck		Air	ıy).	
Weather Conditions	s during the time (of the	hazardous	condit	ion (onset or	r dis	scoverv:		
Temperature	Wind Direction		Wind Spe			Humid		<u> </u>		cipitation
Temperature	Trind Bircotton		Willia Opc			Halling	<u>y</u>		1100	orpitation:
	<u> </u>		1							
Contact Information:										
5 5 5	Name		Company		Mai	ling Ad	dre	SS	Telep	hone
Person Reporting (if known)										
Party Responsible										
Site Contact										

		leading to the incident
MATERIA MATERIA TERRESI NATURA E CONTROL DE		Alana and tanks attana Antana as sa sa sisa d
nitial Actions Taken: write a nar	rative of the initial ac	tions and instructions taken or required.
		r and be addressed to the duty officer responding to
the spill. Reports can be sent via	n mail, fax, or electi	ronic mail.
the spill. Reports can be sent via		
Mail IDNR Emergency Response	Fax	eonic mail. Email
the spill. Reports can be sent via	n mail, fax, or electi	ronic mail.

Thank You

02/2014 cmz DNR Form 542-0029

Emergency Response Contractors

www.iowadnr.com/spills/

The Iowa Department of Natural Resources does not register, certify or endorse contractors. Responsible parties are not required to hire contractors on this list. The Iowa DNR reserves the right to make the final determination as to whether a contractor will be listed based on our knowledge of their work practices. This list is provided as a courtesy to responsible parties to help expedite spill responses and cleanups. These contractors have indicated that they are in compliance with OSHA regulations for emergency response personnel (OSHA 1910.120).

It is essential that contractors communicate directly with the lowa DNR once they have been hired by a responsible party. This will ensure that the contractor is aware of the onsite conditions, brings the proper equipment to the spill site, and understands the Department's expectations for cleanup and coordinates with other state and local officials. We also advise responsible parties to determine if the contractor hired is actually performing the on-site work or is subcontracting the work to another contractor.

Whenever possible, we recommend that companies pre-plan for emergencies and contact potential contractors before an incident occurs. Keep in mind that a contractor may not always be available to respond to an incident due to previous commitments. Iowa is a predominantly rural state and it may take several or more hours for a contractor to respond to a site.

NOTES:

- Public hazardous materials teams respond only at the request of local officials, do not contract with private companies and do not respond outside of their regional contracts. Not all counties in lowa have a contract with a public hazardous materials team.
- The lowa DNR does not have a hazardous materials team and will not hire a contractor for you.
- <u>Unless noted, the contractors listed do not provide services for nuclear/radiation</u> incidents, biohazards, explosives or weapons of mass destruction.

Any company determined to have misrepresented its qualifications, on-site authority, response levels or expertise will be removed from this list for a minimum of 3 years.

Assured Decontamination Services, LLC.	ompany is based in Minneapolis with a satellite office in Des Moines.
LLC.	in barry to bacod in minimapone minima care in a care in
2643 Beaver Ave. This co	ompany responds statewide
Des Moines, Iowa 50310	ompany responds statewide
Respo	nse Level: B
800-924-6384	and a strolaum anil alangua
	ompany deals with Meth lab cleanup and petroleum spill cleanups. Ompany has offices in northeastern and central lowa (Cedar Rapids & Des
	s). Also has office in Kieler, WI
Marion, Iowa 52302	
800-289-7371	empany responds statewide
	nse Level: D
sales@acterragroup.com	
	ompany does petroleum spills. Ompany is located in central Minnesota (Twin Cities).
Bay West This co	ompany is located in central Minnesota (1 Min Cities).
	mpany responds in Iowa statewide.
800-279-0456 Respo	nse Level: A
651-291-0099(fax)	ilse Level. A
www.baywest.com The co	ompany does not handle pressurized gases.
danh@baywest.com	
Bio Tec Emergency Services 24139 Greenway Rd. Unit A	ompany is located in
Forest Lake, MN 55025 The co	ompany responds in Iowa statewide.
1-888-246-9111	man Lavely C
web site: www.usacsc.com Respo email: info@usacsc.com	nse Level: C
Clande	estine (Meth) Lab Remediation and Analytical Testing, Mold, Fire and Restoration, Homicide, Suicide and Accidental Death Clean-Ups
	ompany is located in Illinois.
4203 Constitution Road Bartonville, IL 61607 The co	ompany responds to the eastern half of lowa.
Bartonvine, it o 1007	impany responds to the eastern half of lowa.
	nse Level: A
309-633-9914 (fax)	ompany does not handle biohazards, radiation, pressurized gases,
	ives or weapons of mass destruction.
	ompany has offices in Davenport and Des Moines. The Davenport office is
7301 Vine Street Court the ma Davenport, Iowa 52806	ain office.
	ompany responds statewide.
563-388-9100	man Lavely D
563-388-1515 (Fax) Respo	nse Level: B
The co	ompany does not handle pressurized gases, stinger operations or off-load
certair	n products.
Environmental Management This co	ompany is located Davenport.
Services, Inc.	
	ompany responds statewide
Davenport, IA 52802 563-322-9000 Respo	onse Level: B
563-322-4363 (fax)	
	ompany does not handle biohazards, radiation, pressurized gases, stinger tions, explosives or WMD.

Г	Environmental Solutions	This company is located in eastern Nebraska, western Iowa (Omaha/Council
1	9144 S. 147 th St.	Bluffs).
	Omaha, Nebraska 68138	
1		The company responds in western lowa.
	402-896-3600	
1	402-894-2444 (fax)	Response Level: A
1		
	www.esilink.com	The company does not handle pressurized gases. The company does handle
- 1-	johnsemp@esilink.com	clandestine labs and biohazards.
_	Evans Environmental	This company is located in western lowa (Council Bluffs/Omaha).
	13055 Locust St.	
	Glenwood, lowa 51534	The company responds statewide.
	740 507 4440	Decreased and D
_	712-527-1440 712-527-1442 (fox)	Response Level: B
_	712-527-1442 (fax) www.evansenv.com	The company handles pressurized gases on a case by case basis. Also have can
	michelle@evansenv.com	trucks available.
- Don	Five Seasons Auto Rebuilders	This company is located in Eastern Iowa.
	5913 16 th Ave. SW	This company is located in Eastern lowa.
	Cedar Rapids, IA 52404	The company responds statewide.
	319-396-8683	Response Level: C
	319-396-4152 (fax)	
		The company handles petroleum based and vehicular fluid spills in eastern lowa up
1	Fiveseasonsauto@dybb.com	to 500 gallons, specializes in accident cleanup. Also paint and paint related
1		products, can be contracted to transport already contained hazmat products.
	GeoTek Engineering	This company is located in southeastern South Dakota, northwestern Iowa (Sioux
	909 East 50th Street North	City/Rapid City).
-1	Sioux Falls, South Dakota 57104	The company responds statewide.
-	800-354-5512	The demparty responds state mas.
	605-335-0773 (fax)	Response Level: C
	www.geotek@eng.com	The company handles petroleum and some other spills. The company does not
-		handle pressurized gases, stinger operations, or off-load tankers.
Г	GM Enterprises,	GM Enterprises, LLC. Formerly SEMO Environmental Services of Iowa is location
	LLC. Environmental Services	is in Mount Pleasant, Southeast IA.
	2019 170th St.	
	Mt. Pleasant, Iowa 52641	The company responds statewide.
	1-319-931-0508 1-319-931-5725	Bearrance Levels C
	GMEnterprises@live.com	Response Level: C
	CINETITE STORM THE COLL	The company handles petroleum spills and some other spills within the limits of
		Level C protection. Also has an extensive fleet of heavy equipment and trucks.
ŀ	HazMat Response, Inc.	The company is located in the Kansas City, Missouri area. Also have offices in
	1203C South Parker	Omaha and N. Platte, NE.
	Olathe, Kansas 66061	
		The company responds statewide.
	21942 Platteview Rd.	
	Gretna, NE 68028	Response Level: A
	800-229-5252	Limited Radiation and Biohazards
	402-332-2032 (Omaha)	Elithica Nadiation and Dionazards
	913-782-6206 (fax)	
	www.haz-matresponse.com	
	hazmat@haz-matresponse.com	
	Heritage	This company is located in Illinois (Chicago).
	15330 Canal Bank Rd.	
	Lemonte, IL 60439	The company responds statewide.
	000 407 7455 (-55 -)	Despessed and A
	630-487-7455 (office)	Response Level: A
ŀ	630-739-1151 (fax) www.heritage-enviro.com	The company handles pressurized gases on a case by case basis.
	www.neritage-erryiro.com	The company nationes pressurized gases on a case by case basis.

Hulcher Services Inc.	The company is located in the Kansas City, Missouri area.
3825 N. Skiles Ave.	
Kansas City, MO 64161	The company responds statewide.
800-637-5471 (24 hr)	Response Level: A
816-454-0303 (office)	1100001100 20101.71
www.hulcher.com	No limitations.
rwaln@hulcher.com	
Hydro-Klean	This company is located in central Iowa (Des Moines).
333 NW 49 th Place Des Moines, Iowa 50313	This company responds statewide.
Des Mollies, Iowa 50313	This company responds statewide.
515-283-0500	Response Level: A
515-283-0505 (fax)	
www.hydro-klean.com	The company does not handle pressurized gases.
mdeutsch@hydro-klean.com	Landa di manda da la manda di Manda Marina di Manda Ma
Iowa CTS Cleaners 4300 SE Capitol Cir Suite C	Located in central Iowa (Des Moines)
Grimes, IA 50111	The company responds statewide
(515) 554-3834 (24 hour line)	
	Response level C
www.iowactscleaners.com	The company handles biohazard remediation to include suicide, homicide,
Johnk@iowactscleaners.com	accidental and unattended death cleanup and restoration. Company also handles
	clandestine drug lab/ site (meth lab and or user site) assessment, testing, and
	decontamination.
J. Pettiecord, Inc.	The company is located in central Iowa (Des Moines).
5043 NE 22 nd Street	The common destablished
Des Moines, Iowa 50313	The company responds statewide.
515-263-8900	Response Level: C
515-265-7750 (fax)	
nick@jpettiecord.com	The company handles petroleum spills and some other spills within the limits of
	Level C protection. Also has an extensive fleet of heavy equipment and trucks
Lindecker Environmental Solutions 7161 Mitchell Mill Rd	The company is located in northeast Iowa (Dubuque).
LaMotte, IA 52054	The company responds northeast and central lowa.
(563)580-5960	Response level: C.
(563)599-6511	The company handles netroleum based and uphicular fluid chills and other spills
Dlindecker1@aol.com	The company handles petroleum based and vehicular fluid spills and other spills within the level C protection.
Meth Lab Cleanup LLC	The company is located in central Iowa (Des Moines).
604 Locust Street Ste 222	(200)
Des Moines, IA 50309	The company responds statewide.
515-657-6386	Beenened Levels C
800-959-METH (6384)	Response Level: C
http://www.methlabcleanup.com	The company handles clandestine drug lab (meth lab) assessment, testing, and
info@methlabcleanup.com	decontamination.

Seneca Waste Solutions	Company has response centers located in western, central and eastern lowa
4140 NE 14 th Street	(Sioux City, Des Moines & Quad Cities along the Mississippi River)
Des Moines, Iowa 50313	(clear, city, 2 at montes at quad clines diet.)
Des Mollies, Iowa 30313	Company managed at-tau-id-
I	Company responds statewide
7241 Gaines Street Court	
Davenport, Iowa 52806	Response Level: A & B
1	•
4444 S. York Street	Company does not handle radiation, biohazards, explosives, WMD or
Sioux City, Iowa 51106	Compressed gases. The Company handles most other chemical spills,
Sloux City, Iowa 51 100	
1	corrosives and petroleum products. Stinger operations performed on case by
800-369-5500 Des Moines/Sioux City	case basis
800-728-6900 Bettendorf	
515-262-2469 (fax)	
www.senecacompanies.com	
cbiellier@senecaco.com	
Shaw Environmental Infrastructure	This company is located in east central Missouri (St. Louis).
42 North Central Drive	,
O'Fallan, Missouri 63306	This company responds statewide.
800-537-9540	Response Level: A
404-668-5511	Nooponio Edvol. 11
	The common data has discussible to blab and the second of
http://www.shawgrp.com/	The company does handle radiation, biohazards, explosives and weapons of
	mass destruction.
Stantec Consulting Svc Inc.	Northern Environmental is located in eastern Iowa (Cedar Rapids).
3349 Southgate Ct SW Suite102	
Cedar Rapids, Iowa 52404	The company responds statewide
319-365-0466	The company responds statewide
	Deserved Levels C
319-365-0464 (fax)	Response Level: C
319-330-0465 (cell)	
24 Hour Emergency Hotline	The company responds to petroleum products and agricultural chemical
1-800-854-0606	releases. Hazardous materials are responded to within the limits of Level C
www.northernenvironmental.com	protection on a case by case basis. The company does not handle pressurized
Contact: James Goodrich	gases.
Contact: barries Coodiner	94303.
0140 = 1	
SWS Environmental Services	The company is based in Florida with regional offices in Texas, Louisiana,
600 Grand Panama Blvd, Suite 200	Tennessee, Ohio and with a Response Network of Contractors Nationwide and
Panama City, FL 32407	Canada.
1	
800-336-0909	SWS responds statewide and nationwide.
000-030-0909	3VV3 responds statewide and nationwide.
	D I . I A
www.swsenvironmental.com	Response Level: A
todd.johnson@swsenvironmental.com	
	No Limitations to Spill Response; also Remediation, Nuclear, Training,
	Technical and Natural Disaster qualified. OSRO and GSA certified.
Unified Contracting Services, Inc.	The company is located in Des Moines, Iowa.
2425 NE 46th Ave.	The company responds statewide.
Des Moines, IA 50317	Response Level: C
(888) 788-8860	The company responds to petroleum products and agricultural chemical
(515) 266-5720 (fax)	releases.
www.petroleumcontractor.com	Hazardous materials are responded to within the limits of Level C protection on
unifiedsvcs@aol.com	a case by case basis.
West Central Env. Consulting	This company is located in west central and central Minnesota. (Morris & the
14 Green River Road	Twin Cities).
PO Box 594	
Morris, Minnesota 56267	The company responds statewide.
320-589-2843	
320-589-2814 (fax)	Response Level: A
www.wcec.com cteff@wcec.com	1.00p01100 E0101. 11
www.wccc.com ctentowcec.com	The company handles pressurized coses on a cost bursts besit The
	The company handles pressurized gases on a case by case basis. The
	company handles biohazards on a case by case basis.

IOWA HAZARDOUS MATERIALS TEAMS

Hazardous Materials Teams cover 99.5 % of the Population in 93 Counties in Iowa Revised: 11/08/2013 Lyon Oscoola Emmet Allamakoo Kessuth Mitchell Sioux Ciny O'Brien Pale Alto Chickasaw Floyd Mason 3 City Clayton Fayette Butler Bremer Humboldt Plymouth 1 4 Sioux City Black Hawk Buchanan Webster Woodbury Calhoun Dubuque Hamilton Grundy Waterloo Ft. Dodge ^{Linn}Linn Tama Benton Jackson Monana Crawford Carroll County(7) Greene Boone Marshall Story Ames 8 Cedar Rapids(8) 15 11 Coder Audubon Johnson Shelby Guthrie Poweshiek Des 5 Soott 9 lowa 17 Harlan 19 Moines City Bettendorf (12) Davenport (11) 13 22 Muscatine **Council Bluffs** 16 Mills Montgomery Union Clarke Мопгов Jefferson Adams Lucas Ottumwa Page Fremont Taylor Ringgold Wayne Davis Appanoo 6 18 20 1. Sioux City Fire Department Linn County Hazmat Team 19. Tri-County Special 14. Burlington Fire Department 8. Cedar Rapids Hazmat Team serves the City of Cedar Rapids 2. Region V Hazmat Team Operations 15. Ames and backup for 20. Lee County Hazmat 3 Mason City Fire Department 9. Johnson County Hazmat Team Des Moines Hazmat Team 4. Northeast Iowa Response Group 16. Muscatine Davenport Fire Department 5. Des Moines Fire Department 12. Bettendorf Fire and Rescue (east half of Scott County) 17. Newton Fire Dept. 22. Marion County Hazardous 6. Southeast Iowa Response Group 13. Council Bluffs Fire Dept Materials Team 18. Hydro-Klean

SWPPP Amendment Log

Project Name: Alice Patricia Homes – Waukee, IA **SWPPP Contact:** Chip Classon – Silver Oak Inc

The Storm Water Pollution Prevention Plan (SWPPP) should be revised and updated whenever there is a change in site conditions, government regulations, design, construction, operation or maintenance which has a significant effect on the potential for the discharge of pollutants to the Waters of the State and which has not otherwise been addressed in the plan. All revisions to the SWPPP must be documented on the SWPPP Amendment Log, which should include the information shown below. A copy of the outdated information should be kept in Section 8 of the SWPPP.

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]
			-

RECORD CONTROL CHECK SHEET

Media
Air RCRA Water Other

Date of Inspection October	- 14, 2016	
Activity Number		
Facility ID Number <u>2840</u>	15-28228	
Facility Name and Address _	Alice Patricia,	Homes Development Would IA 56263

The following documents pertaining to this activity are contained in the package:

Document		Yes	No	NA
Final Report with attachments Field sheets Chain of Custody Analytical data sheets Pre-inspection documents Photographic negatives (if applicable) Photographs (not included in this report) CD-ROM containing photos/videos Field notebook w/ pages used Other documents (list below)	Pages	(*) (*) () () () ()	() () () () () () ()	() (x) (x) (x) (x) (x) (x) (x)

(Note: If additional space is needed to list specific documents, utilize reverse side)

CERTIFICATION

I, the undersigned, certify that all of the documents pertaining to this activity that were in my possession have been listed above and were included in this package at the time this statement was signed.

Activity Leader's Signature and Date

	0
	Alies Pariera Hoines Construction SW inspectedy
	Inspector Eine Trainer US EPA RIT (EFT)
Cycle Company of the	41.624353, -93.854365
A particular security	Drive Growed perioreter of Property Jordisons Constructions
	Call - 1st message (575) Jay Cowan , Jerns Homes 322 0663
J	Joidison Construction laying Construct 10/14
	Jay Coward Vaturis Call - Will SAND inspector
	EFT varifies OK to well partions of 514
	3
	Sparidago pip at portal (lacing 5) Portal (foring 5)
	Porio successful by silt heree appears in fact

2	
<u> </u>	Wash and of site (facing 5)
	Hay cover
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	Building in 10 days
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	aria.
	Paper Street Tim Huckeby (575) 393 0511
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	Seeding / Mulching one Tuesday
	21.81 Acres
	Review SwiPP, dared March 31, 2016
P	Signed Chip Classon
	According to Mr. Cowers Dellwood Dr.
	was constancing by Jerrys Homes and is has
	owned by Jerrys Homes and half by
	adjacent Site
Ø	Cator Basin along Dellwood Dr.
	6 Catch Basins lotal
0 0	Controls pussing on east cortch basines or

July 18 19 19 19 19 19 19 19 19 19 19 19 19 19	
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(9)	Jun's Johns - No Apichor (Facings)
1	Along Dellwood Dr.
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	North and of site
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(2)	Steine Pine close past side of propert	
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3	View inspection logs
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· C.	Controls in 2 Catch basins along Dellwood Dr.
- C	CONTROLS II.